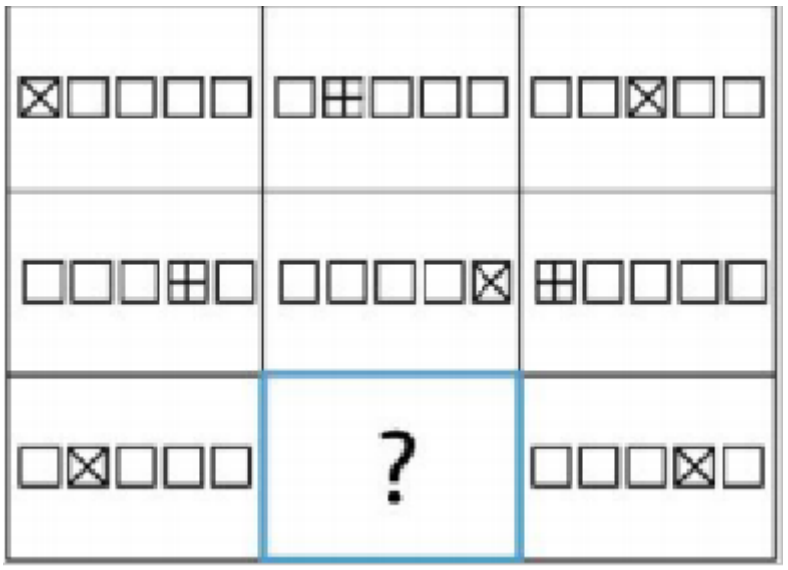
Department of Management

Question **1**

Not yet answered

Marked out of 1.00



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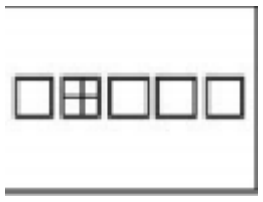
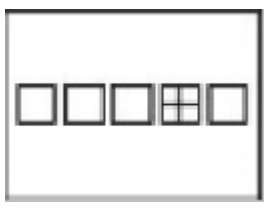
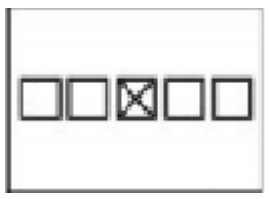
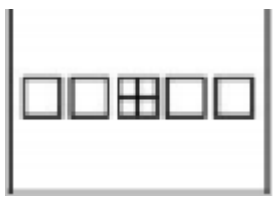
a. 

b. 

c. 

d. 

Question **2**

Not yet answered

Marked out of 1.00

ADF, CFG, EHH, ?, ILJ

Select one:

a. GIJ

b. FII

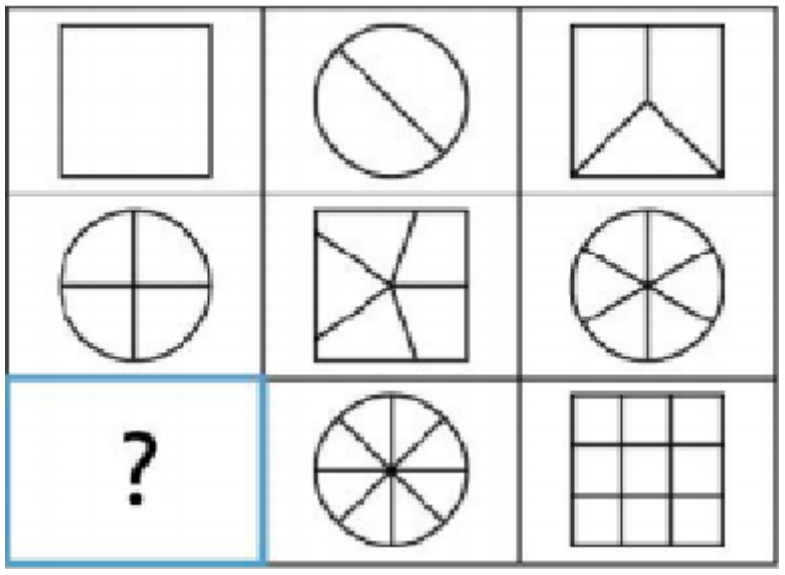
c. HIJ

d. GJI

Question **3**

Not yet answered

Marked out of 1.00



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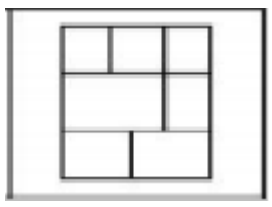
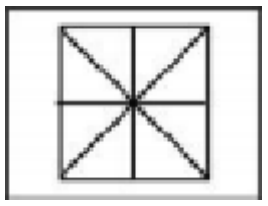
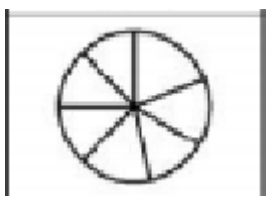
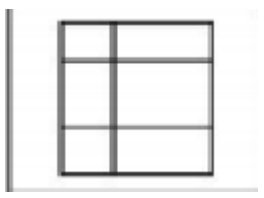
a. 

b. 

c. 

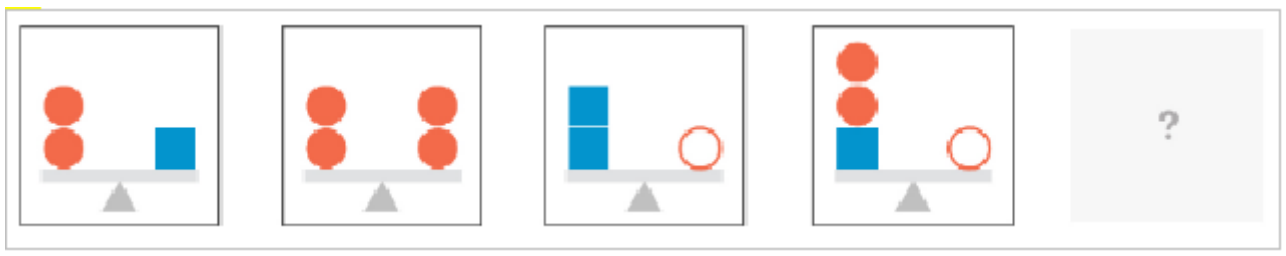
d. 

Question **4**

Not yet answered

Marked out of 1.00

Logic



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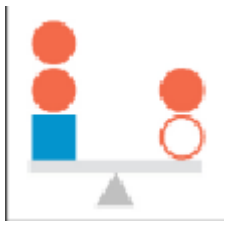
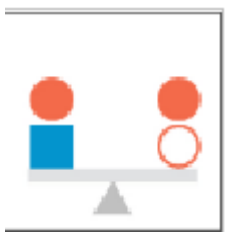
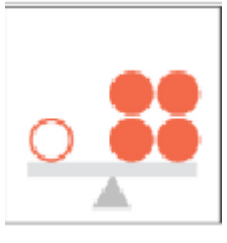
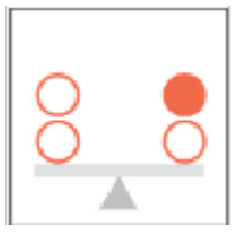
a. 

b. 

c. 

d. 

Question **5**

Not yet answered

Marked out of 1.00

ZCF, YBE, XAD, WZC, _____

Select one:

- a. VYU
- b. VUY
- c. YUV
- d. VYB

Question **6**

Not yet answered

Marked out of 1.00

Z2 | Y4 | X8 | W16 | ?

Select one:

- a. V32
- b. S24
- c. S32
- d. V24

Question **7**

Not yet answered

Marked out of 1.00

You have 98 BAM and the coffee costs 3 BAM. How many coffees can you buy?

Imate 98 KM, a šoljica kafe košta 3 KM. Koliko šoljica kafe možete kupiti?

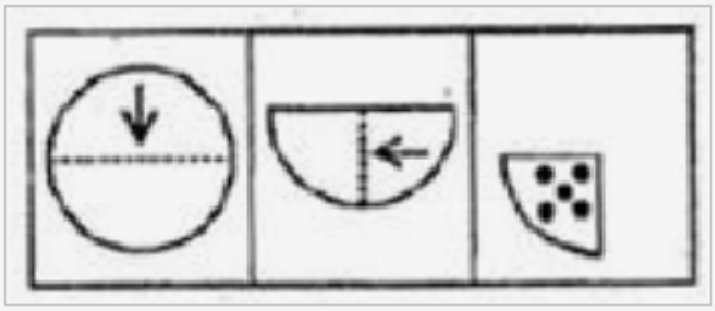
Select one:

- a. 28
- b. 32
- c. 33
- d. 30

Question **8**

Not yet answered

Marked out of 1.00



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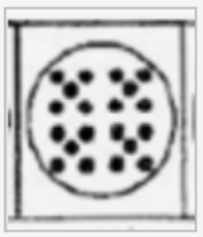
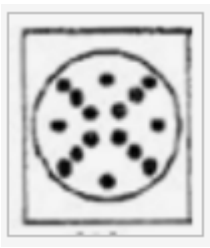
a. 

b.

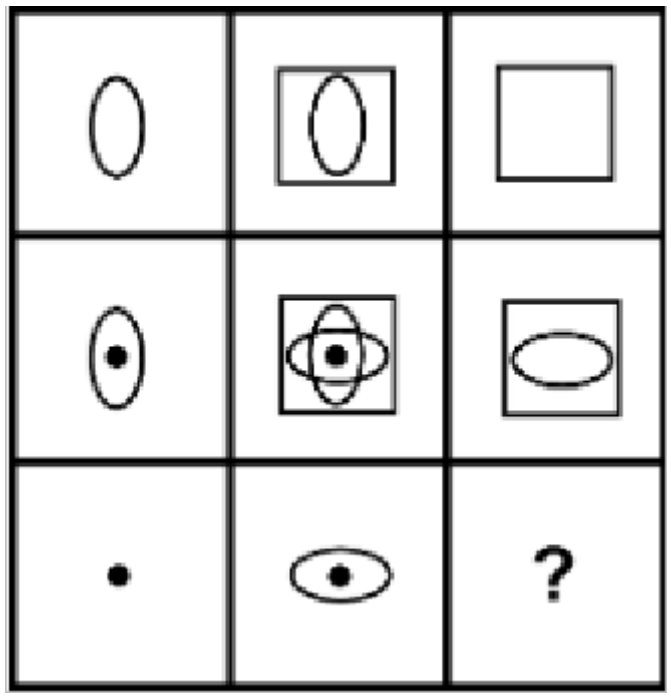
c. 

d.

Question **9**

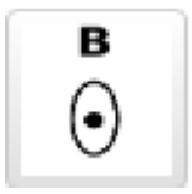
Not yet answered

Marked out of 1.00

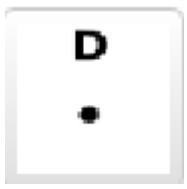


Select one:

a.

b. 

c.

d. 

Question **10**

Not yet answered

Marked out of 1.00

BCD4, B5CD, ?, BCD7

Select one:

a. BC6D7

b. BC6D

c. BCD6

d. B6CD

Question **11**

Not yet answered

Marked out of 1.00

If in a certain language, NOIDA is coded as OPJEB, how is DELHI coded in that language?

Ako se u nekom jeziku, NOIDA prevodi kao OPJEB, kako se DELHI prevodi u tom jeziku?

Select one:

a. EFMIJ

b. CDKGH

c. IHLED

d. FGNJK

Question **12**

Not yet answered

Marked out of 1.00

Select one:

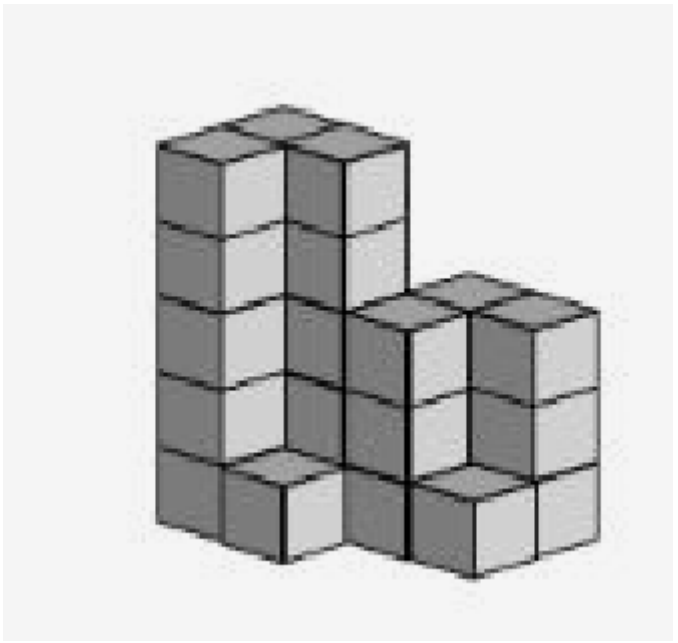
- a. -4
- b. 3
- c. 1
- d. 0

Question **13**

Not yet answered

Marked out of 1.00

1. How many blocks make up the shape below? / Koliko kocki sačinjava oblik prikazan ispod?



Select one:

- a. 27
- b. 25
- c. 26
- d. 18

Question **14**

Not yet answered

Marked out of 1.00

9 | 2 | 7 | -5 | 12 | ? | 29

Select one:

- a. 3
- b. -17
- c. -9
- d. 13

Question **15**

Not yet answered

Marked out of 1.00

Find the wrong number in the following number series:

Pronađi pogrešan broj u sljedećem nizu:

5, 8, 16, 26, 50, 98, 194

Select one:

- a. 8
- b. 98
- c. 16
- d. 50

Question **16**

Not yet answered

Marked out of 1.00

2, 6, 12, 20, 30, 42, 56, ?

Select one:

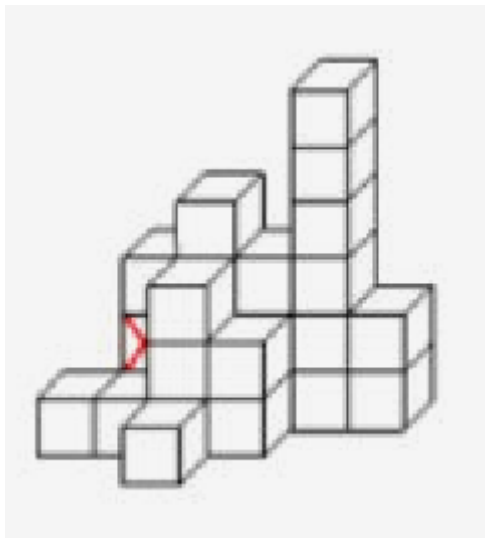
- a. 72
- b. 61
- c. 64
- d. 70

Question **17**

Not yet answered

Marked out of 1.00

Each box is of similar size and must be places either on the ground or on another box. A box touches another box if they have at least one adjacent face or edge (not including vertices). How many other boxes touch the marked box with X? / Svaka kutija je iste veličine i postavljena je ili na podlogu ili na drugu kutiju. Kutija dodiruje drugu kutiju ako imaju barem jedno susjedno lice ili rub (ne uključujući vrhove). Koliko drugih kutija dodiruje označenu kutiju sa X?



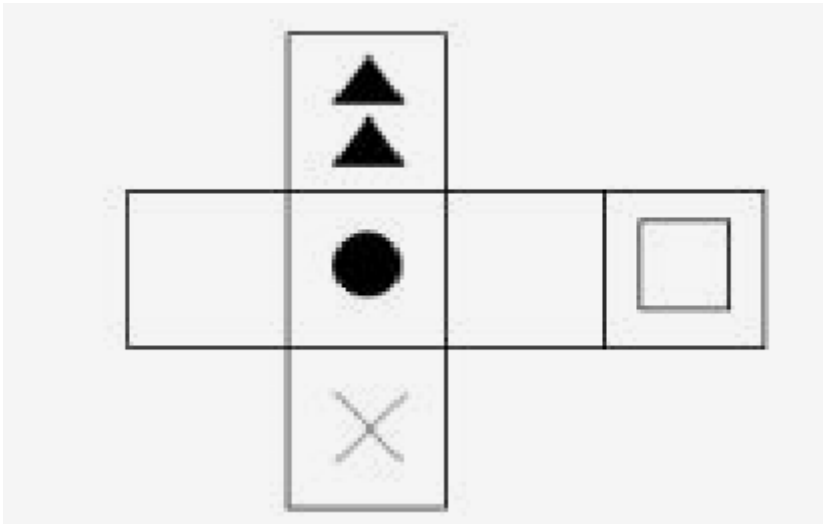
Select one:

- a. 5
- b. 7
- c. 4
- d. 6

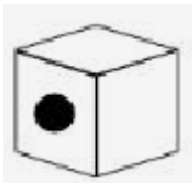
Question **18**

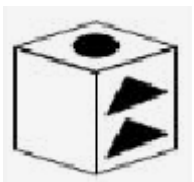
Not yet answered

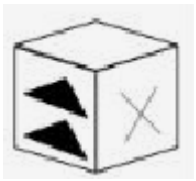
Marked out of 1.00

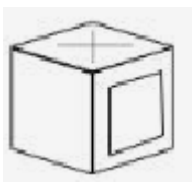


Select one:

a. 

b. 

c. 

d. 

Question **19**

Not yet answered

Marked out of 1.00

Which one does not belong to the series? / Koji od sljedećih brojeva ne odgovaru nizu?

1, 1, 2, 3, 5, 7, 8, 12, 13, 21

Select one:

a. 2 and 3 / 2 i 3

b. 8 and 12 / 8 i 12

c. 5 and 8 / 5 i 8

d. 7 and 12 / 7 i 12

Question **20**

Not yet answered

Marked out of 1.00

5, 16, 49, 104, ?

Select one:

a. 161

b. 181

c. 191

d. 171

Question **21**

Not yet answered

Marked out of 1.00

Sue receives a base salary of $63 weekly plus a 9% commission on all sales. Sue had $3,000 in sales for the past two weeks. How much did she make total?

Sue prima osnovnu platu od $63 sedmično plus 9% proviziju od prodaje. Sue je prodala $3000 u toku dvije sedmice. Kolika su njena ukupna primanja?

Select one:

- a. $369
- b. $399
- c. $333
- d. $396

Question **22**

Not yet answered

Marked out of 1.00

If x - 6 = 9, then 3x + 1 = ?

Select one:

- a. 15
- b. 46
- c. 34
- d. 45

Question **23**

Not yet answered

Marked out of 1.00

20 % of 0.25 is equal to:

20% od 0.25 je jednako:

Select one:

- a. 0.5
- b. 5
- c. 0.05
- d. 50

Question **24**

Not yet answered

Marked out of 1.00

If x + 6 = 9, then 3x + 1 = ?

Select one:

- a. 10
- b. 9
- c. 34
- d. 3

Question **25**

Not yet answered

Marked out of 1.00

Of the following fractions, which is higher than 2/3?

Od ponuđenih frakcija koja je veća od 2/3?

Select one:

- a. 2/5
- b. 3/4
- c. 4/10
- d. 3/5

Question **26**

Not yet answered

Marked out of 1.00

If 3x + 5x = -8, then x + 1 =

Ako je 3x + 5x = -8, onda je x + 1 =

Select one:

- a. -1
- b. 0
- c. 1
- d. 0.1

Question **27**

Not yet answered

Marked out of 1.00

If you have $300 today in your pocket and inflation is 6%, in a year your $300 will be worth:

Ako imate u džepu $300 danas, a inflacija je 6%, za godinu dana vaših $300 će biti vrijedno:

Select one:

- a. $306
- b. $300
- c. < $300
- d. > $300

Question **28**

Not yet answered

Marked out of 1.00

If y(x-1)=z then x=

Ako je y(x-1)=z onda je x=

Select one:

- a. z/y + 1
- b. y(z-1)
- c. y-z
- d. z(y-1)

Question **29**

Not yet answered

Marked out of 1.00

A hockey team won 6 games and lost 8. What is the ratio of wins to number of games?

Hokejaški tim je pobjedio 6, a izgubio 8 utakmica. Koji je odnos pobjeda prema ukupnom broju utakmica?

Select one:

- a. 8/6
- b. 8/14
- c. 6/8
- d. 3/7

Question **30**

Not yet answered

Marked out of 1.00

20 % of 2 is equal to:

20% od 2 je jednako:

Select one:

- a. 0.04
- b. 20
- c. 4
- d. 0.4

Question **31**

Not yet answered

Marked out of 1.00

If you have $100 today in your pocket and inflation is 3%, in a year your $100 will be worth:

Ako imate u džepu $100 danas, a inflacija je 3%, za godinu dana vaših $100 će biti vrijedno:

Select one:

- a. $100
- b. < $100
- c. $103
- d. > $100

Question **32**

Not yet answered

Marked out of 1.00

If Logx is (1 / 8) = - 3 / 2, then x is:

Ako je Logx (1 / 8) = - 3 / 2, onda je x:

Select one:

- a. 4
- b. 10
- c. 1 / 4
- d. - 4

Question **33**

Not yet answered

Marked out of 1.00

A school committee consists of 2 teachers and 4 students. The number of different committees that can be formed from 5 teachers and 10 students is:

Školski komitet se sastoji od 2 profesora i 4 studenta. Broj različitih komiteta koji bi se mogli formirati od 5 profesora i 10 studenata je:

Select one:

- a. 8
- b. 10
- c. 2100
- d. 15

Question **34**

Not yet answered

Marked out of 1.00

The population of a country increased by an average of 2% per year from 2000 to 2003. If the population of this country was 2 000 000 on December 31, 2003, then the population of this country on January 1, 2000, to the nearest thousand would have been:

Broj stanovnika jedne zemlje se povećava 2% od godine 2000 do 2003. Ako je broj stanovnika na dan 31 Dec 2003 iznosio 2,000,000, onda bi broj stanovnika ove zemlje na dan 1 Jan 2000 iznosio:

Select one:

- a. 1 000 000
- b. 1 846 000
- c. 1 852 000
- d. 1 500 000

Question **35**

Not yet answered

Marked out of 1.00

Bob can type a 20 page document in 40 minutes, Sam can type it in 30 minutes, and Pam can type it in 24 minutes. Working together, how much time will it take them to type the same document?

Bob može istipkati 20 strana u 40minuta, Sem isto to tipka za 30minuta, a Pam za 24 minute. Ako rade zajedno za koliko vremena mogu istipkati isti dokument?

Select one:

- a. 15 minutes
- b. 12 minutes
- c. 5 minutes
- d. 10 minutes

Question **36**

Not yet answered

Marked out of 1.00

Federation of Bosnia and Herzegovina is consisted of how many Cantons? /Federacija BiH se sastoji od koliko Kantona?

Select one:

- a. 13
- b. 9
- c. 5
- d. 10

Question **37**

Not yet answered

Marked out of 1.00

Galileo was an Italian astronomer who: / Galileo je Italijanski astronom koji je:

Select one:

- a. discovered a microchip/ otkrio mikročip
- b. discovered an airplane / otkrio avion
- c. developed a telescope/ razvio teleskop
- d. developed a solar clock / razvio solarni sat

Question **38**

Not yet answered

Marked out of 1.00

The headquarter of the Central Bank of BiH is located in: /Sjedište Centralne Banke Bosne i Hercegovine je u:

Select one:

- a. Mostaru
- b. Sarajevu
- c. Tuzli
- d. Banjoj Luci

Question **39**

Not yet answered

Marked out of 1.00

Which city is considered the de facto capital of the European Union? / Koji grad je de facto glavni grad Europske Unije?

Select one:

- a. Strasbourg
- b. Paris
- c. Brussels
- d. Berlin

Question **40**

Not yet answered

Marked out of 1.00

Which city in the world has the largest population? / Koji grad ima najveću populaciju na svijetu?

Select one:

- a. Shangai
- b. Tokyo
- c. Zenica
- d. New York

Question **41**

Not yet answered

Marked out of 1.00

Which American president signed the Emancipation Proclamation, which freed all slaves in USA? / Koji američki predsjednik je potpisao Proglas o oslobođenju čime je oslobodio robove u SAD-u?

Select one:

- a. Theodore Roosevelt
- b. Andrew Johnson
- c. Woodrow Wilson
- d. Abraham Lincoln

Question **42**

Not yet answered

Marked out of 1.00

The presidency of the Council of the European Union is currently held by/Funkciju predsjedavajućeg Vijeća Evropske Unije trenutno obnaša:

Select one:

- a. Croatia
- b. Italy
- c. Austria
- d. Slovenia

Question **43**

Not yet answered

Marked out of 1.00

The ozone layer restricts: / Sloj ozona filtrira:

Select one:

- a. X-rays and gamma rays / rendgenske i gama zrake
- b. Infrared radiation / Infracrveno zračenje
- c. Visible light / Vidljivu svjetlost
- d. Ultraviolet radiation / ultraljubičasto zračenje

Question **44**

Not yet answered

Marked out of 1.00

The Presidency of Bosnia and Herzegovina is the three-member body. How often the members rotate in the position of Chairperson?/Predsjedništvo Bosne i Hercegovine je tijelo kojeg čine tri člana. Koliko često se članovi rotiraju na poziciji Predsjedavajućeg predsjedništva?

Select one:

- a. Every eight months/ svakih osam mjeseci
- b. Every four months/ svaka četiri mjeseca
- c. Every six months/ svakih šest mjeseci
- d. Every ten months/ svakih deset mjeseci

Question **45**

Not yet answered

Marked out of 1.00

The last Global Financial Crisis originated in which country/U kojoj državi je započela posljednja Globalna finansijska kriza:

Select one:

- a. China/ Kina
- b. The United Kingdom /Ujedinjeno Kraljevstvo
- c. Germany/ Njemačka
- d. The United States of America / Sjedinjene Američke Države

Question **46**

Not yet answered

Marked out of 1.00

Indira Gandhi was a famous / Indira Gandi je bila poznata:

Select one:

- a. Indian president / Indijska predsjednica
- b. Indian prime minister / Indijska premijerka
- c. Pakistani prime minister / Pakistanska premijerka
- d. Pakistani president / Pakistanska predsjednica

Question **47**

Not yet answered

Marked out of 1.00

Winston Churchill was the British Prime Minister during: / Winston Churchill je bio premijer Velike Britanije za vrijeme:

Select one:

- a. American Civil War / Američkog građanskog rata
- b. Gulf War / Zaljevskog rata
- c. World War I / Prvog svjetskog rata
- d. World War II/ Drugog svjetskog rata

Question **48**

Not yet answered

Marked out of 1.00

Waterloo in London is the worlds's: / Waterloo u Londonu je svjetski:

Select one:

- a. Famous bottled water brand / Poznati brend za flaširanu vodu
- b. Famous railway/train station / Poznata željeznička stanica
- c. The longest tunnel in Europe / Najduži tunel u Evropi
- d. The longest bridge in Europe / Najduži most u Evropi

Question **49**

Not yet answered

Marked out of 1.00

Which person invented daylight savings time? / Koja poznata osoba je 'izumila' ljetno računanje vremena?

Select one:

- a. Benjamin Franklin
- b. Albert Einstein
- c. Woodrow Wilson
- d. Andrew Johnson

Question **50**

Not yet answered

Marked out of 1.00

Grand Central Terminal, Park Avenue, New York is the world's: / Grand Central terminal, Park Avenija, New York je svjetska:

Select one:

- a. The longest railway station / najduža željeznička stanica
- b. The largest railway station / najveća željeznička stanica
- c. The highest railway station / najvisočija željeznička stanica
- d. None of these / nijedno od navedenog

Department of International Relations and European Studies

Question **1**

Not yet answered

Marked out of 1.00

G2X, J4V, M8T, ?, S32P

Select one:

- a. P8S
- b. Q16R
- c. P16R
- d. N64S

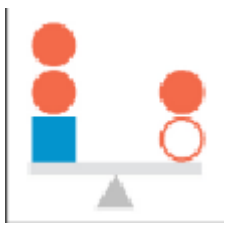
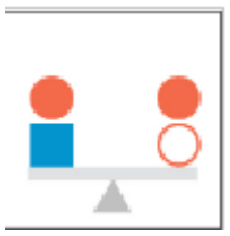
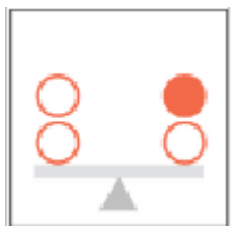
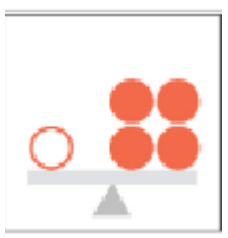
Question **2**

Not yet answered

Marked out of 1.00

Logic

Select one:

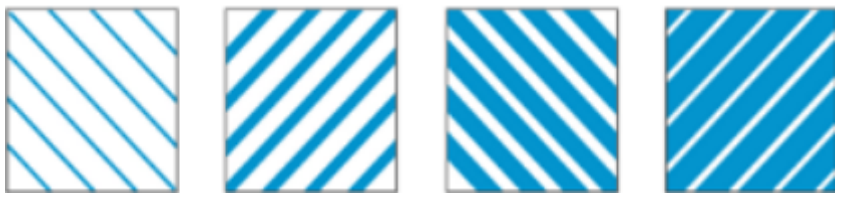
- a. 
- b. 
- c. 
- d. 

Question **3**

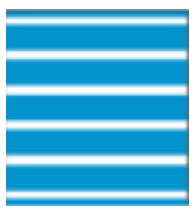
Not yet answered

Marked out of 1.00

Logic



Select one:

a. 

b.

c.

d.

Question **4**

Not yet answered

Marked out of 1.00

ADF, CFG, EHH, ?, ILJ

Select one:

a. GJI

b. FII

c. HIJ

d. GIJ

Question **5**

Not yet answered

Marked out of 1.00

ZCF, YBE, XAD, WZC, _____

Select one:

a. VUY

b. VYU

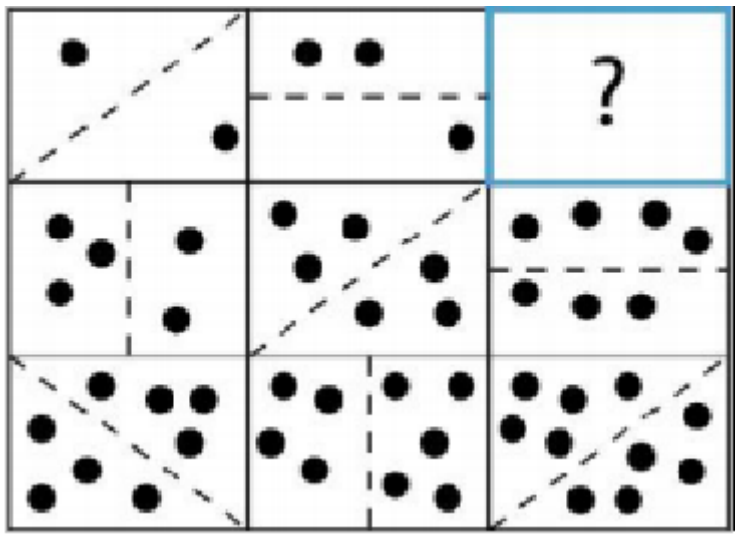
c. YUV

d. VYB

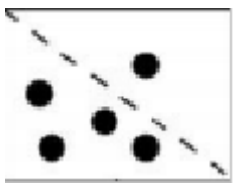
Question **6**

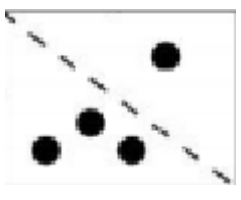
Not yet answered

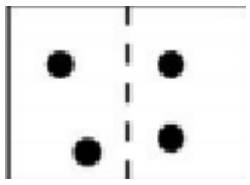
Marked out of 1.00

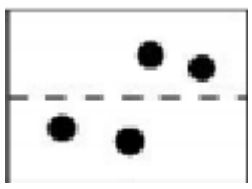


Select one:

a. 

b. 

c. 

d. 

Question **7**

Not yet answered

Marked out of 1.00

I. Peter is older than Mike.

II. Tom is older than Peter.

III. Mike is older than Tom.

If the first two statements are true, the third statement is:

I. Peter je stariji od Mike.

II. Tom je stariji od Peter.

III. Mike je stariji od Tom.

Ako su prva dva iskaza tačna, treći iskaz je:

Select one:

a. None of these / Nijedan od ponuđenih

b. False / Netačan

c. Uncertain / Neizvjestan

d. True / Tačan

Question **8**

Not yet answered

Marked out of 1.00

Logic

Select one:

a.

b.

c.

d.

Question **9**

Not yet answered

Marked out of 1.00

9 | 2 | 7 | -5 | 12 | ? | 29

Select one:

a. -17

b. 3

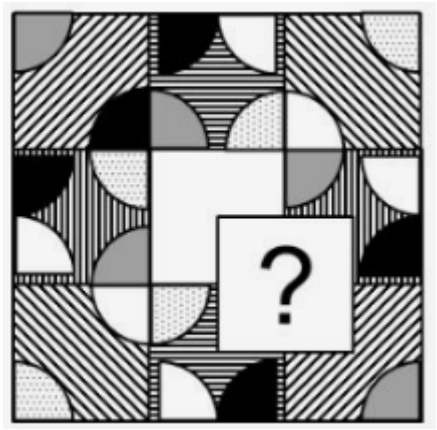
c. 13

d. -9

Question **10**

Not yet answered

Marked out of 1.00

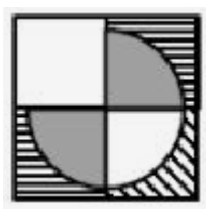


Select one:

a.

b.

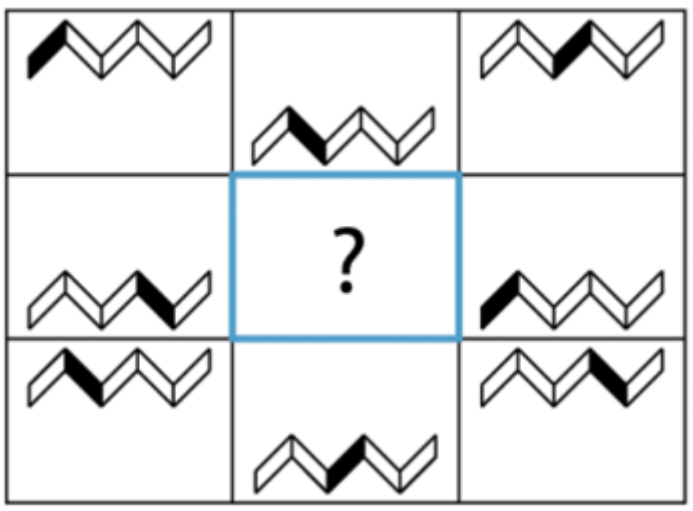
c.

d. 

Question **11**

Not yet answered

Marked out of 1.00



Select one:

a.

b.

c.

d.

Question **12**

Not yet answered

Marked out of 1.00

6 gardeners plant 6 trees in 6 minutes. How many gardeners will be needed to plant 60 trees in 60 minutes?

6 vrtlara posadi 6 drveća u 6 minuta. Koliko vrtlara je potrebno da posade 60 drveća u 60 minuta?

Select one:

- a. 6 vrtlara
- b. 60 vrtlara
- c. 10 vrtlara
- d. 15 vrtlara

Question **13**

Not yet answered

Marked out of 1.00

Select three figures out of the following five figures which when fitted into each other would form a square.

Odaberi tri figure od ponuđenih pet koje, kada se spoje, formiraju kvadrat.

Select one:

- a. 1, 2, 5
- b. 2, 3, 4
- c. 5, 3, 1
- d. 1, 2, 4

Question **14**

Not yet answered

Marked out of 1.00

6, 14, 36, 98, ?

Select one:

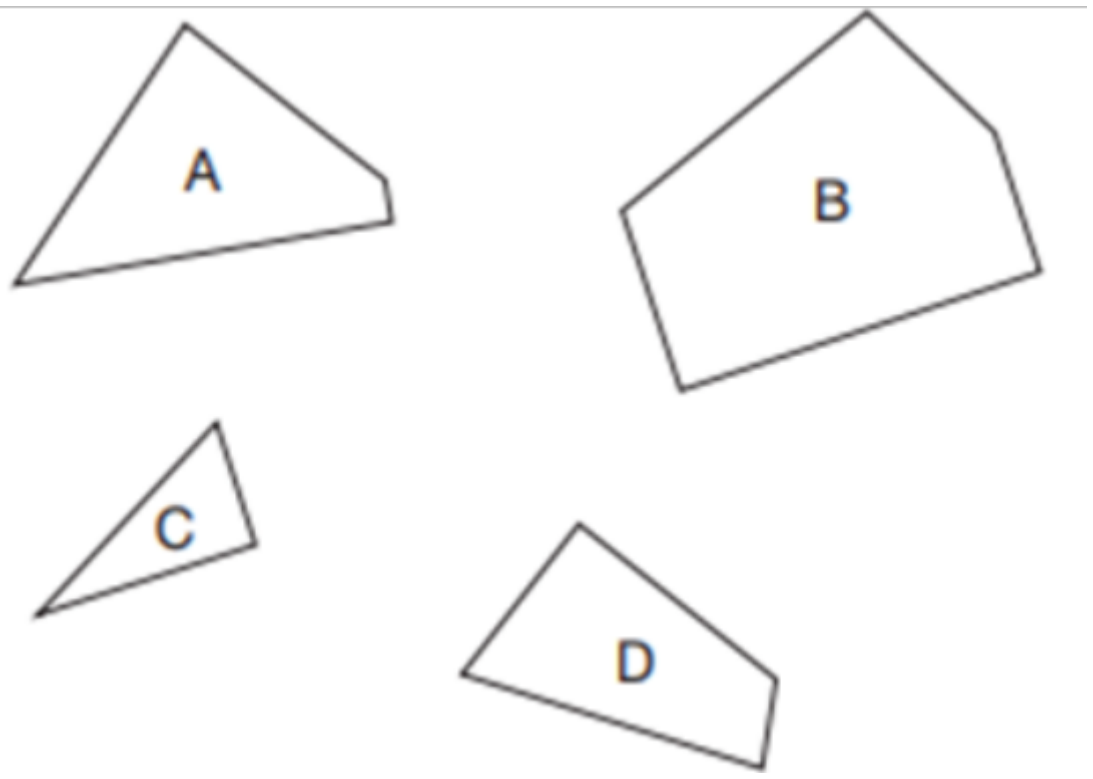
- a. 220
- b. 274
- c. 275
- d. 276

Question **15**

Not yet answered

Marked out of 1.00

Which three of the four pieces below can be fitted together to form a perfect square? / Koja tri od četiri dijela zajedno čine kvadrat?



Select one:

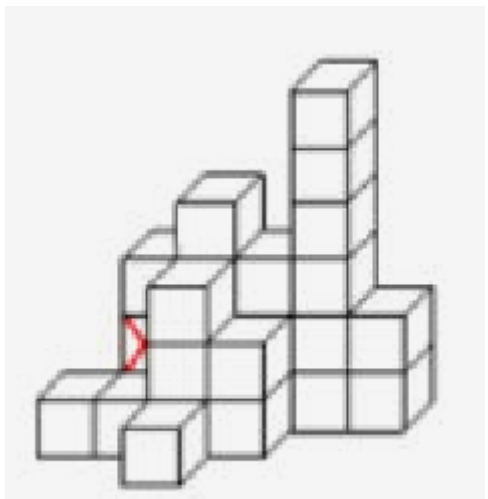
- a. ACB
- b. CDB
- c. DCA
- d. BDA

Question **16**

Not yet answered

Marked out of 1.00

Each box is of similar size and must be places either on the ground or on another box. A box touches another box if they have at least one adjacent face or edge (not including vertices). How many other boxes touch the marked box with X? / Svaka kutija je iste veličine i postavljena je ili na podlogu ili na drugu kutiju. Kutija dodiruje drugu kutiju ako imaju barem jedno susjedno lice ili rub (ne uključujući vrhove). Koliko drugih kutija dodiruje označenu kutiju sa X?



Select one:

- a. 5
- b. 6
- c. 7
- d. 4

Question **17**

Not yet answered

Marked out of 1.00

2, 6, 12, 20, 30, 42, 56, ?

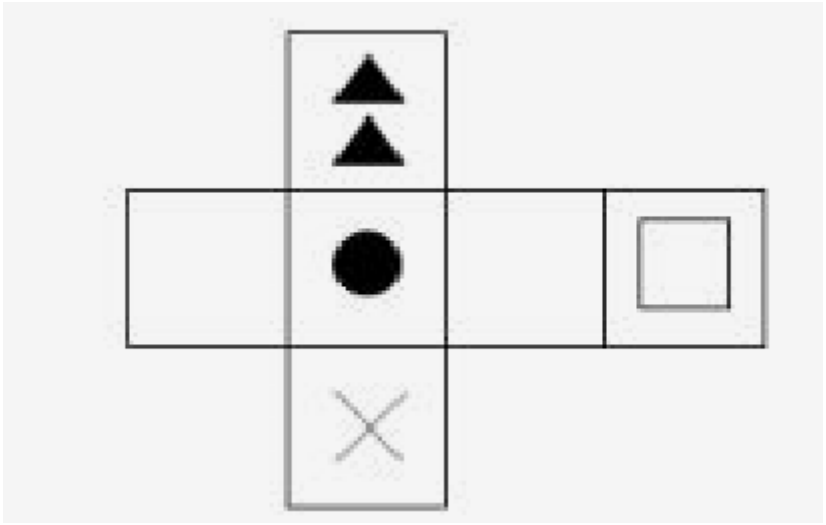
Select one:

- a. 72
- b. 61
- c. 70
- d. 64

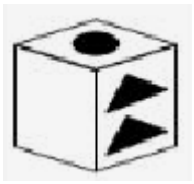
Question **18**

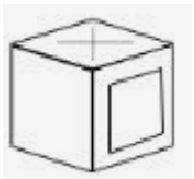
Not yet answered

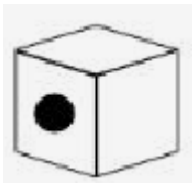
Marked out of 1.00

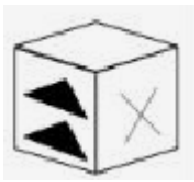


Select one:

a. 

b. 

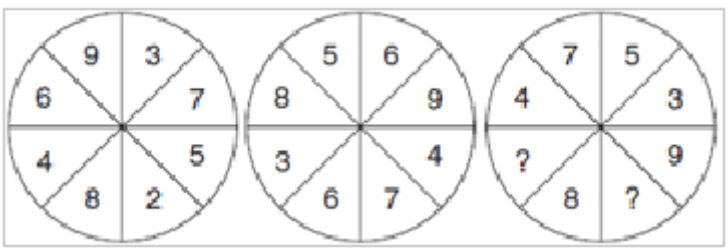
c. 

d. 

Question **19**

Not yet answered

Marked out of 1.00



Select one:

a. 10,6

b. 16,5

c. 9,5

d. 11,4

Question **20**

Not yet answered

Marked out of 1.00

Find the wrong number in the following number series:

Pronađi pogrešan broj u sljedećem nizu:

5, 8, 16, 26, 50, 98, 194

Select one:

a. 50

b. 16

c. 8

d. 98

Question **21**

Not yet answered

Marked out of 1.00

The Soviet Union Spy Agency was known as: / Špijunska agencija Sovjetskog Saveza je bila poznata kao:

Select one:

- a. GKB
- b. BGK
- c. KBG
- d. KGB

Question **22**

Not yet answered

Marked out of 1.00

Which of the following rivers, is the natural border between Bosnia and Herzegovina and the Republic of Croatia: / Sljedeća rijeka je prirodna granica između Bosne i Hercegovine i Republike Hrvatske

Select one:

- a. Danube / Dunav
- b. Sava / Sava
- c. Drina / Drina
- d. Neretva / Neretva

Question **23**

Not yet answered

Marked out of 1.00

The day of the liberation of Sarajevo from the Nazi regime in World War II is: / Dan oslobođenja Sarajeva od nacističkog režima u Drugom svjetskom ratu je:

Select one:

- a. March 1st / 1. mart
- b. April 6th / 6. april
- c. May 9th / 9. maj
- d. November 25th / 25. novembar

Question **24**

Not yet answered

Marked out of 1.00

The states that were part of the Soviet Union are: / Navedene države su bile u sastavu Sovjetskog Saveza:

Select one:

- a. All of these / Sve navedeno
- b. Ukraine, Georgia, Belarus / Ukrajina, Gruzija, Bjelorusija
- c. Uzbekistan, Tajikistan, Turkmenistan / Uzbekistan, Tadžikistan, Turkmenistan
- d. Estonia, Lithuania and Latvia / Estonija, Litvanija i Latvija

Question **25**

Not yet answered

Marked out of 1.00

The October Revolution, or the Great Socialist Revolution, took place in 1917 in: / Oktobarska revolucija, odnosno velika socijalistička revolucija desila se 1917. godine u:

Select one:

- a. Italy / Italiji
- b. France / Francuskoj
- c. Spain / Španiji
- d. Russia / Rusiji

Question **26**

Not yet answered

Marked out of 1.00

Which religious organization is the largest and has a permanent and strong bureaucratic structure: / Koja je religijska organizacija najveća i ima trajnu i jaku birokratsku strukturu:

Select one:

- a. cult / kult
- b. church / crkva
- c. sect / sekta-sljedba
- d. denomination / denominacija

Question **27**

Not yet answered

Marked out of 1.00

The job of a diplomat is: / Zadaća diplomate je:

Select one:

- a. Representing and protecting the interests and nationals of the home country / Predstavljanje i zaštita interesa i državljana matične zemlje
- b. Building and improving relations with the receiving country / Izgradnja i unaprijeđenje odnosa sa zemljom primateljicom
- c. Conclusion of international agreements and conventions / Sklapanje međunarodnih sporazuma i konvencija
- d. All of these / Sve navedeno

Question **28**

Not yet answered

Marked out of 1.00

The Kingdom of Serbs, Croats and Slovenes, later renamed as the Kingdom of Yugoslavia, is formed in: / Kraljevina Srba, Hrvata i Slovenaca, kasnije preimenovana u Kraljevinu Jugoslaviju, formirana je:

Select one:

- a. 1918
- b. 1945
- c. 1941
- d. 1878

Question **29**

Not yet answered

Marked out of 1.00

As a result of dissatisfaction with working conditions, workers organize: / Kao posljedicu nezadovoljstva uslovima rada, radnici organiziraju:

Select one:

- a. revolution / revoluciju
- b. strike / štrajk
- c. rebellion / bunu
- d. uprising / ustanak

Question **30**

Not yet answered

Marked out of 1.00

The term secularism stands for: / Pojam sekularizam označava:

Select one:

- a. all of these / sve navedeno
- b. reducing the impact of sects on society / smanjenje uticaja sekti na društvo
- c. reducing the influence of church and religion on society / smanjenje uticaja crkve i religije na društvo
- d. reducing the influence of government on society / smanjenje uticaja državne vlasti na društvo

Question **31**

Not yet answered

Marked out of 1.00

The North Atlantic Alliance (NATO) currently has: / Sjevernoatlanski savez (NATO) trenutno broji članova:

Select one:

- a. 28
- b. 26
- c. 29
- d. 27

Question **32**

Not yet answered

Marked out of 1.00

Great Charter of Freedoms - Magna Carta Libertatum - is signed on 15 June 1215 by: / Veliku povelju o pravima – Magna Carta Libertatum – potpisao je 15. juna 1215. godine:

Select one:

- a. The King of Sweden / Švedski kralj
- b. The King of England / Engleski kralj
- c. The King of France / Francuski kralj
- d. The King of Belgium / Belgijski kralj

Question **33**

Not yet answered

Marked out of 1.00

The "Balkan Route" refers to? / "Balkanski put" se odnosi na?

Select one:

- a. Oil pipelines / Naftovodi
- b. Illegal narcotics smuggling / Nelegalni šverc narkotika
- c. Transport of goods and services from the EU to Turkey / Prevoz robe i usluga iz EU u Tursku
- d. Capital movement from Greek banks to the EU / Kretanje kapitala iz grčkih banaka ka EU

Question **34**

Not yet answered

Marked out of 1.00

The Memorial Center "Potočari" in Srebrenica is officially opened in 2003 by the former US President / Memorijalni centar "Potočari" u Srebrenici zvanično je, 2003. godine, otvorio bivši američki predsjednik:

Select one:

- a. George W. Bush
- b. Barack Obama
- c. George H. W. Bush
- d. Bill Clinton

Question **35**

Not yet answered

Marked out of 1.00

The material culture of one nation is: / Od navedenog, materijalna kultura jednog naroda je:

Select one:

- a. law / pravo
- b. technology advancement / tehnološka dostignuća
- c. philosophical system / filozofski sistemi
- d. art / umjetnost

Question **36**

Not yet answered

Marked out of 1.00

The Secretary general of UN is: / Generalni sekretar Ujedinjenih naroda je:

Select one:

- a. Antonio Gutteres / Antonio Gutteres
- b. Javier Solana / Javier Solana
- c. Boris Johnson / Boris Johnson
- d. Ban Ki-moon / Ban Ki-moon

Question **37**

Not yet answered

Marked out of 1.00

Which country in the world has the most Muslims? / U kojoj zemlji na svijetu živi najviše muslimana?

Select one:

- a. Pakistan / Pakistan
- b. Indonesia / Indonezija
- c. Egypt / Egipat
- d. India / Indija

Question **38**

Not yet answered

Marked out of 1.00

The first German chancellor was: / Prvi njemački kancelar bio je:

Select one:

- a. Adolf Hitler
- b. Otto von Bismarck
- c. Friedrich Ebert
- d. Konrad Adenauer

Question **39**

Not yet answered

Marked out of 1.00

In which country is the Civil War currently underway? / U kojoj zemlji se trenutno vodi građanski rat?

Select one:

- a. Moldova / Moldaviji
- b. Yemen / Jemenu
- c. Tajikistan / Tadžikistanu
- d. Egypt / Egiptu

Question **40**

Not yet answered

Marked out of 1.00

Which of the following countries is not a member of NATO? / Koja od sljedećih zemalja nije članica NATO-a?

Select one:

- a. Montenegro / Crna Gora
- b. Croatia / Hrvatska
- c. Slovenia / Slovenija
- d. Austria / Austrija

Question **41**

Not yet answered

Marked out of 1.00

The failed 1993 peace plan, which envisaged the partition of Bosnia and Herzegovina into three constituent republics, is called: / Neuspjeli mirovni plan iz 1993. godine koji je predviđao podjelu Bosne i Hercegovine u tri konstitutivne republike zvao se?

Select one:

- a. Camp David Agreement / Sporazum iz Camp Davida
- b. Carrington Cutileiro Plan / Karington Kutliliero plan
- c. Aries Stoltenberg Plan / Oven Stoltenbergov plan
- d. The Washington Agreement / Vasingtonski sporazum

Question **42**

Not yet answered

Marked out of 1.00

Which of the following countries does not border with Slovakia? / Koja od sljedećih zemalja ne graniči sa Slovačkom?

Select one:

- a. Poland / Poljska
- b. Romania / Rumunija
- c. Ukraine / Ukrajina
- d. Hungary / Mađarska

Question **43**

Not yet answered

Marked out of 1.00

A set of institutions that have a legitimate force monopoly in a given territory is called: / Skup institucija koji na određenom teritoriju imaju legitimni monopol sile nazivamo:

Select one:

- a. the state / država
- b. civil society / civilno društvo
- c. ethnic community / etnička zajednica
- d. a nation / nacija

Question **44**

Not yet answered

Marked out of 1.00

Which sociologist thought that the emergence of capitalism is related to the Protestant work ethics? / Koji je sociolog smatrao da je nastanak kapitalizma povezan s protestantskom radnom etikom?

Select one:

- a. Max Weber
- b. Talcott Parsons
- c. Emile Durkheim
- d. Karl Marx

Question **45**

Not yet answered

Marked out of 1.00

The basic document that regulates diplomatic conduct and defines the framework of diplomatic relations between independent states is called: / Temeljni dokument koji reguliše diplomatsko postupanje, te definira okvir diplomatskih odnosa između nezavisnih država naziva se:

Select one:

- a. Geneva Convention on Diplomatic Relations, 1961 / Ženevska konvencija o diplomatskim odnosima iz 1961. godine
- b. Paris Convention on Diplomatic Relations, 1961 / Pariška konvencija o diplomatskim odnosima iz 1961. godine
- c. Bonn Convention on Diplomatic Relations, 1961 / Bonska konvencija o diplomatskim odnosima iz 1961. godine
- d. Vienna Convention on Diplomatic Relations, 1961 / Bečka konvencija o diplomatskim odnosima iz 1961. godine

Question **46**

Not yet answered

Marked out of 1.00

Which of the following cities is under control of the Palestinian Authority? / Koji od ovih gradova se nalazi pod kontrolom Palestinske samouprave?

Select one:

- a. Ramallah / Ramala
- b. East Jerusalem / Istocni Jerusalem
- c. West Jerusalem / Zapadni Jerusalem
- d. Tel Aviv / Tel Aviv

Question **47**

Not yet answered

Marked out of 1.00

The President of the United States of America at the time of the use of nuclear weapons in 1945 on Hiroshima and Nagasaki was? / Predsjednik Sjedinjenih Američkih Drzava u trenutku upotrebe nuklearnog oružja 1945. godine na Hirošimu i Nagasaki je bio?

Select one:

- a. Teddy Roosevelt
- b. Franklin Delano Roosevelt
- c. Richard Nixon
- d. Harry Truman

Question **48**

Not yet answered

Marked out of 1.00

To which language branch English language belongs to? / Kojoj grupi jezika pripada engleski jezik?

Select one:

- a. Roman / Romanskoj
- b. German / Germanskoj
- c. Slavic / Slavenskoj
- d. Turkic / Turskoj

Question **49**

Not yet answered

Marked out of 1.00

"The man is a social, political being (zoon politikon)" is said by: / "Čovjek je društveno, političko biće (zoon politikon)" je rekao:

Select one:

- a. Socrates / Sokrat
- b. Heraclitus / Heraklit
- c. Aristotle / Aristotel
- d. Plato / Platon

Question **50**

Not yet answered

Marked out of 1.00

Social stratification is the name for: / Društvena stratifikacija naziv je za:

Select one:

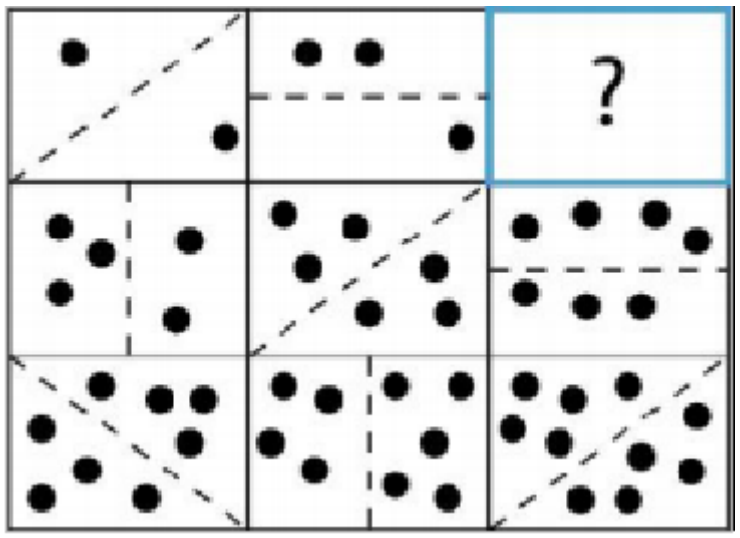
- a. Different division of labor among individuals / Različitu podjelu rada kod pojedinaca
- b. Different layers of society / Različite slojeve društva
- c. Unequal treatment of individuals on the basis of gender, nation, religion / Nejednak tretman pojedinaca na osnovu spola, nacije, religije
- d. Different roles in society / Različite uloge u društvu

Department of Graphical Design and Multimedia

Question **1**

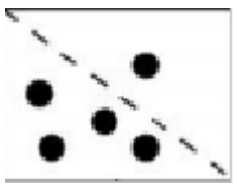
Not yet answered

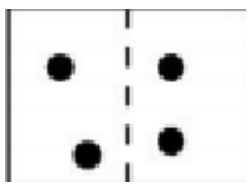
Marked out of 1.00

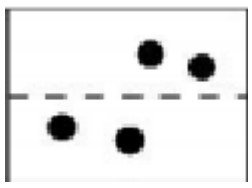


Select one:

a.

b. 

c. 

d. 

Question **2**

Not yet answered

Marked out of 1.00

80, 10, 70, 15, 60, ...

Select one:

a. 20

b. 25

c. 30

d. 50

Question **3**

Not yet answered

Marked out of 1.00

ZCF, YBE, XAD, WZC, _____

Select one:

a. VYU

b. VUY

c. VYB

d. YUV

Question **4**

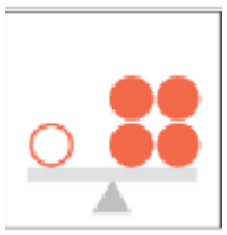
Not yet answered

Marked out of 1.00

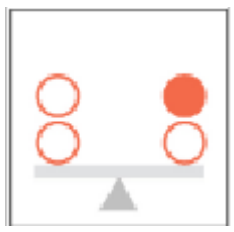
Logic

Select one:

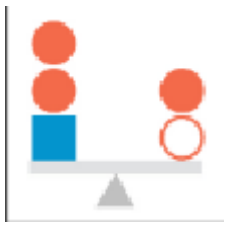
a.



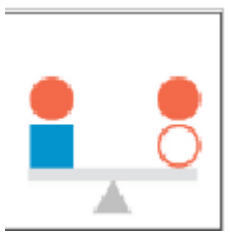
b.



c.



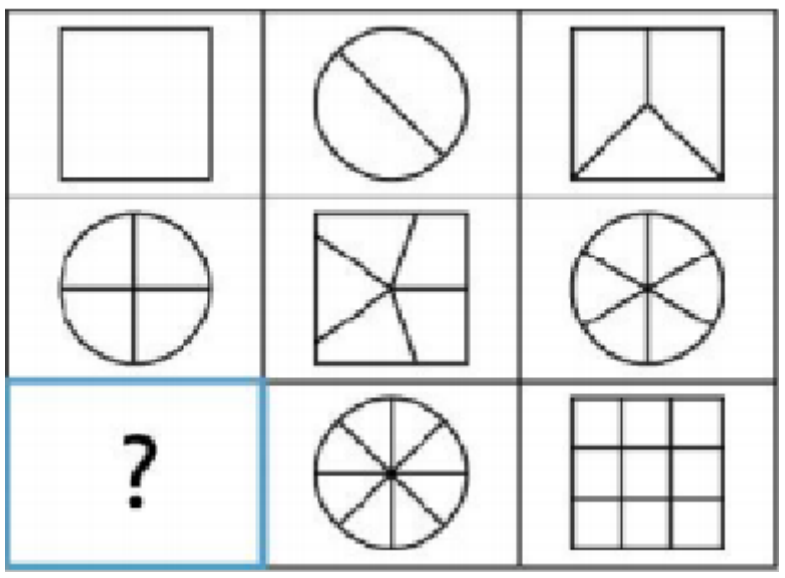
d.



Question **5**

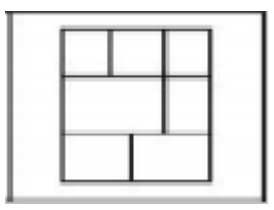
Not yet answered

Marked out of 1.00

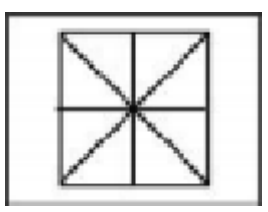


Select one:

a.

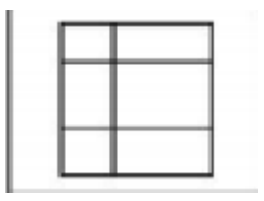


b.



c.

d.

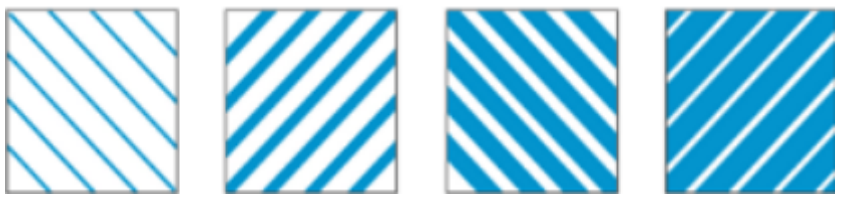


Question **6**

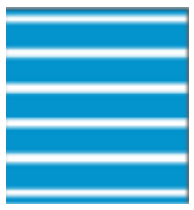
Not yet answered

Marked out of 1.00

Logic



Select one:

a. 

b.

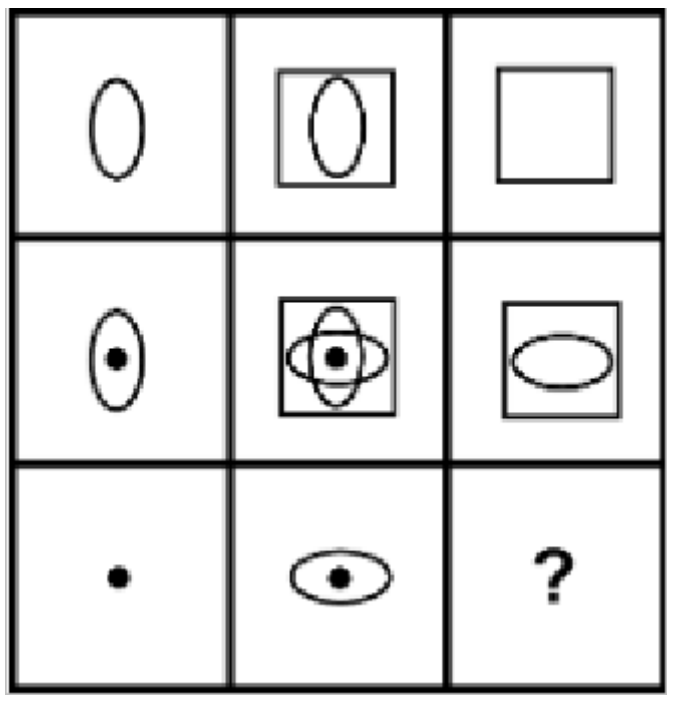
c.

d.

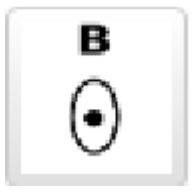
Question **7**

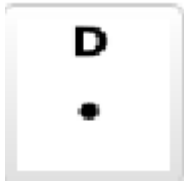
Not yet answered

Marked out of 1.00

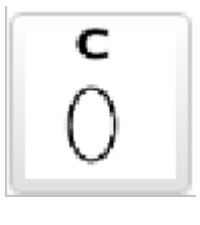


Select one:

a. 

b. 

c.

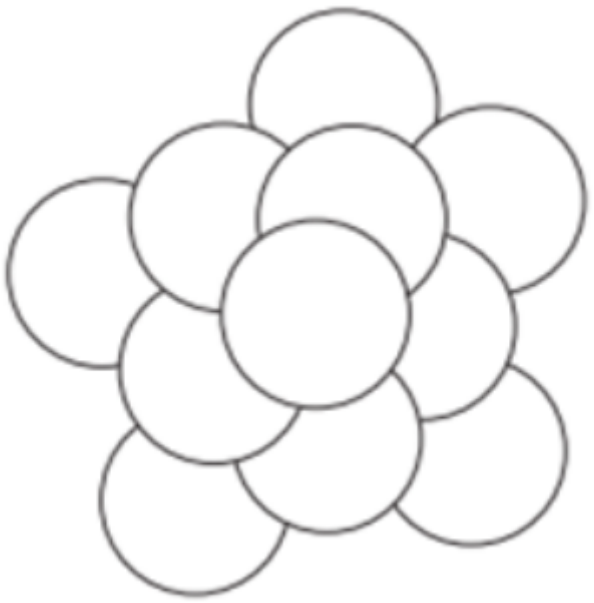
d. 

Question **8**

Not yet answered

Marked out of 1.00

How many circles appears below? / Koliko krugova ima na slici?



Select one:

- a. 1
- b. 10
- c. 12
- d. 11

Question **9**

Not yet answered

Marked out of 1.00

15 | 20 | 28 | 18 | 23 | 28 | 21 | 26 | 28 | ? | ?

Select one:

- a. 36, 25
- b. 24, 29
- c. 26, 31
- d. 23, 27

Question **10**

Not yet answered

Marked out of 1.00

BCD4, B5CD, ?, BCD7

Select one:

- a. BCD6
- b. BC6D
- c. B6CD
- d. BC6D7

Question **11**

Not yet answered

Marked out of 1.00

11, 14, 20, 29, ?, 56

Select one:

- a. 41
- b. 31
- c. 40
- d. 51

Question **12**

Not yet answered

Marked out of 1.00

I. Peter is older than Mike.

II. Tom is older than Peter.

III. Mike is older than Tom.

If the first two statements are true, the third statement is:

I. Peter je stariji od Mike.

II. Tom je stariji od Peter.

III. Mike je stariji od Tom.

Ako su prva dva iskaza tačna, treći iskaz je:

Select one:

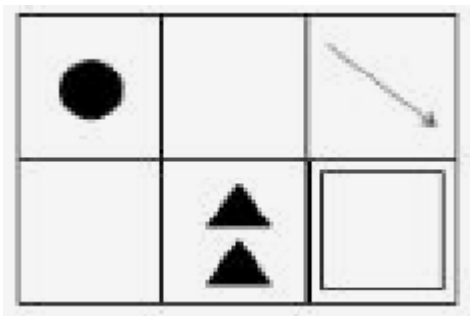
- a. True / Tačan
- b. None of these / Nijedan od ponuđenih
- c. Uncertain / Neizvjestan
- d. False / Netačan

Question **13**

Not yet answered

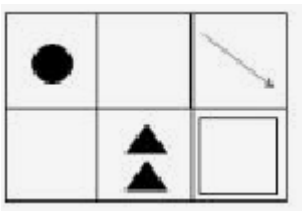
Marked out of 1.00

Which answer shows a reflection of the image below? / Koji odgovor prikazuje refleksiju slike prikazane ispod?

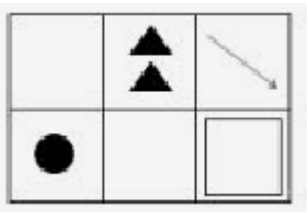


Select one:

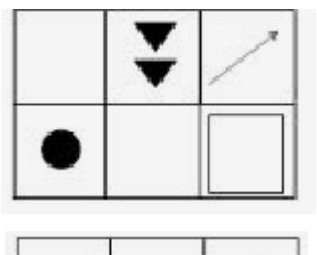
a.



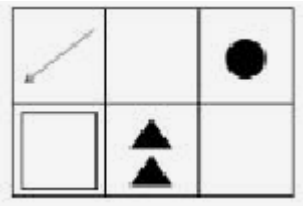
b.



c.



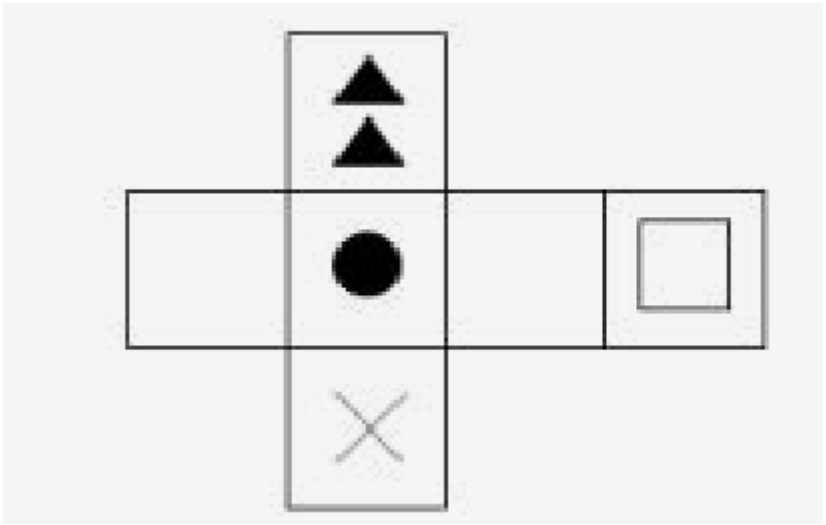
d.



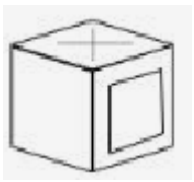
Question **14**

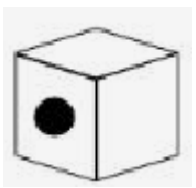
Not yet answered

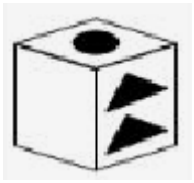
Marked out of 1.00

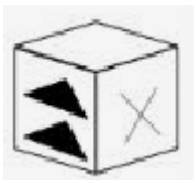


Select one:

○ a. 

○ b. 

○ c. 

○ d. 

Question **15**

Not yet answered

Marked out of 1.00

Select three figures out of the following five figures which when fitted into each other would form a square.

Odaberi tri figure od ponuđenih pet koje, kada se spoje, formiraju kvadrat.

Select one:

○ a. 2, 3, 4

○ b. 5, 3, 1

○ c. 1, 2, 4

○ d. 1, 2, 5

Question **16**

Not yet answered

Marked out of 1.00

If '-' means '+', '+' means '-', '*' means '÷' and '÷' means '*' then which of the following will be the correct equation? / Ako '-' znači '+', '+' znači '-', '*' znači '÷' i '÷' znači '*', koja od navedenih jednačina će biti tačna?

Select one:

○ a. 30 + 5 + 14 - 10 * 15 = 122

○ b. 10 + 5 - 14 ÷ 10 * 15 = 158

○ c. 30 - 5 + 14 ÷ 10 * 15 = 162

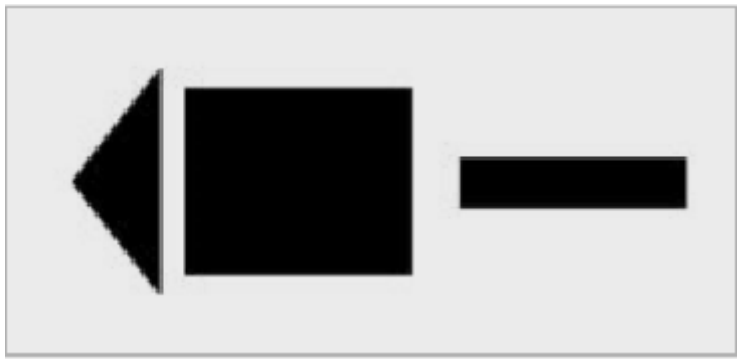
○ d. 30 * 5 - 4 ÷ 10 + 15 = 31

Question **17**

Not yet answered

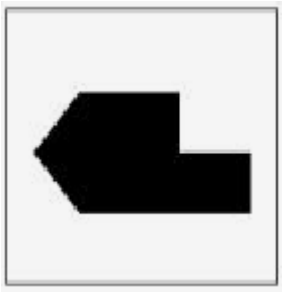
Marked out of 1.00

Which image can be made from the three shapes shown? / Koja slika se može složiti koristeći tri prikazna oblika?

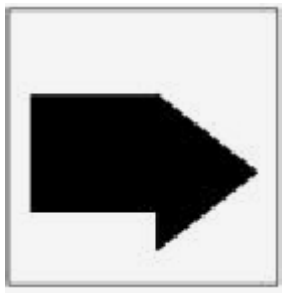


Select one:

a.

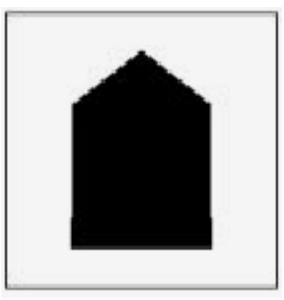


b.



c.

d.

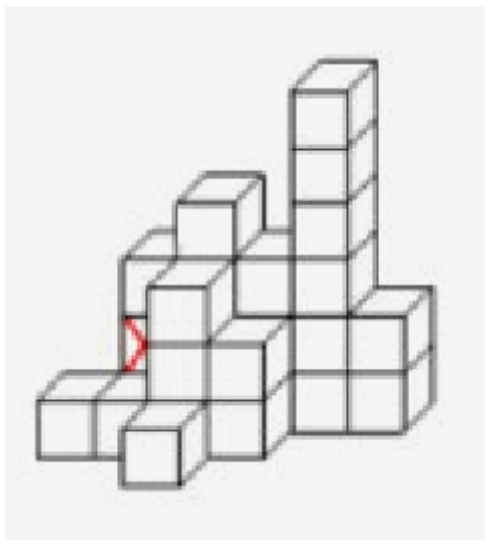


Question **18**

Not yet answered

Marked out of 1.00

Each box is of similar size and must be places either on the ground or on another box. A box touches another box if they have at least one adjacent face or edge (not including vertices). How many other boxes touch the marked box with X? / Svaka kutija je iste veličine i postavljena je ili na podlogu ili na drugu kutiju. Kutija dodiruje drugu kutiju ako imaju barem jedno susjedno lice ili rub (ne uključujući vrhove). Koliko drugih kutija dodiruje označenu kutiju sa X?



Select one:

a. 6

b. 5

c. 7

d. 4

Question **19**

Not yet answered

Marked out of 1.00

Which one does not belong to the series? / Koji od sljedećih brojeva ne odgovaru nizu?

1, 1, 2, 3, 5, 7, 8, 12, 13, 21

Select one:

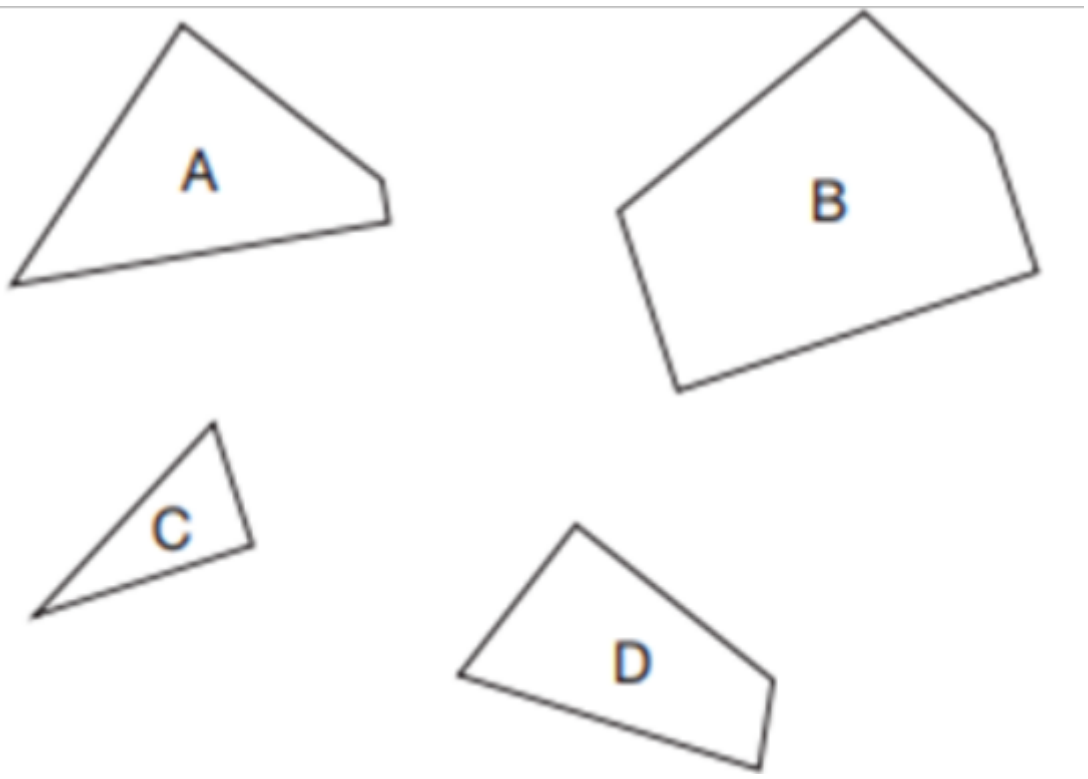
- a. 7 and 12 / 7 i 12
- b. 5 and 8 / 5 i 8
- c. 2 and 3 / 2 i 3
- d. 8 and 12 / 8 i 12

Question **20**

Not yet answered

Marked out of 1.00

Which three of the four pieces below can be fitted together to form a perfect square? / Koja tri od četiri dijela zajedno čine kvadrat?



Select one:

- a. DCA
- b. ACB
- c. CDB
- d. BDA

Question **21**

Not yet answered

Marked out of 1.00

Which one is not an image file format?

Koji od ponuđenih nije format fajla slike?

Select one:

- a. PNG
- b. TIFF
- c. JFIF
- d. PDF

Question **22**

Not yet answered

Marked out of 1.00

What does refinement mean?

Šta znači razrada u produkciji?

Select one:

- a. Skipping certain parts of the creative process / Preskakanje određenih dijelova kreativnog procesa
- b. Making radical changes to an idea / Radikalne promjene prvobitne ideje
- c. Initial development work / Rana faza produkcije
- d. Making small changes to improve an idea / Pravljenje malih promjena radi poboljšanja prvobitne ideje

Question **23**

Not yet answered

Marked out of 1.00

Which color mode is used for printing purposes?

Koji se mod boje koristi za printanje?

Select one:

- a. RGB
- b. RYB
- c. sRGB
- d. CMYK

Question **24**

Not yet answered

Marked out of 1.00

Slowing down a movie clip may create what effect?

Usporavanje filma može stvoriti kakav efekat?

Select one:

- a. Create excitement / Stvoriti uzbuđenje
- b. Create tenderness / Stvoriti osjećaj nježnosti
- c. Extend a moment of tension / Produžiti trenutak napetosti
- d. Make a scene scary / Napraviti scenu zastrašujućom

Question **25**

Not yet answered

Marked out of 1.00

Which of these is not a paper size?

Koja od ponuđenih nije veličina papira?

Select one:

- a. B3
- b. C6
- c. G8
- d. A5

Question **26**

Not yet answered

Marked out of 1.00

Which of these letters is used to determine pencil softness?

Koje od ponuđenih slova označava mekoću olovke?

Select one:

- a. MR
- b. AH
- c. HB
- d. CT

Question **27**

Not yet answered

Marked out of 1.00

What are the three primary colors?

Koje su tri osnovne boje?

Select one:

- a. Purple, Red and Blue / Ljubičasta, crvena i plava
- b. Yellow, Red and Blue / Žuta, crvena i plava
- c. Red, Green and Yellow / Crvena, zelena i žuta
- d. Purple, Red and Blue / Ljubičasta, crvena i plava

Question **28**

Not yet answered

Marked out of 1.00

If you create text images with transparent backgrounds, what format should you export them as?

Ako kreirate tekstualne slike s transparentnim pozadinama, u kojem formatu ih treba izvoziti?

Select one:

- a. PNG
- b. TIFF
- c. JPEG
- d. JPG2000

Question **29**

Not yet answered

Marked out of 1.00

What is currently the most popular form of animation?

Koji je trenutno najpopularniji oblik animacije?

Select one:

- a. Rotoscoping / Rotoskopiranje
- b. 2D animation / 2D animacija
- c. 3D CGI Animation / 3D CGI animacija
- d. Pixilation / Pikselizacija

Question **30**

Not yet answered

Marked out of 1.00

What is an aerial shot?

Šta je vazdušni snimak?

Select one:

- a. A shot showing a TV aerial or antenna / Snimka na kojoj se prikazuje TV antena
- b. A shot taken from a low angle / Snimak napravljen iz niskog ugla
- c. A shot taken by mistake / Snimak je napravljen greškom
- d. A shot taken from the air with the camera attached to a drone or aircraft / Snimak napravljen iz zraka sa kamerom pričvršćenom na dronu ili letjelici

Question **31**

Not yet answered

Marked out of 1.00

What does ISO tell us?

Šta nam govori ISO?

Select one:

- a. How sensitive the camera sensor is to light / Koliko je senzor kamere osjetljiv na svjetlost
- b. How expensive the camera is / Koliko je kamera skupa
- c. How many exposures you can make / Koliku izloženost možete napraviti
- d. How depth of field is arranged in your photo / Kako je poredana dubina polja na vašoj fotografiji

Question **32**

Not yet answered

Marked out of 1.00

How many dimensions does a shape have?

Koliko dimenzija ima oblik?

Select one:

- a. Two / Dvije
- b. One / Jednu
- c. Three / Tri
- d. Four / Četiri

Question **33**

Not yet answered

Marked out of 1.00

What is Parallax in web design?

Šta je Parallax u web dizajnu?

Select one:

- a. A scrolling animation technique / Scroll animacijska tehnika
- b. One of the most popular plugins for WordPress / Jedan od najpopularnijih plugina za WordPress
- c. Type of lightbox for gallery viewing / Vrsta lightboxa za pregled galerije
- d. A special type of website header / Posebna vrsta zaglavlja (headera) web stranice

Question **34**

Not yet answered

Marked out of 1.00

What is a raster image?

Šta je rasterska slika?

Select one:

- a. An image based on mathematical formulas / Slika zasnovana na matematičkim formulama
- b. An editable image / Slika koja se može uređivati
- c. A grid of individual pixels of color / Skup pojedinačnih piksela boje
- d. An image that is not resolution-dependent / Slika koja nije zavisna od rezolucije

Question **35**

Not yet answered

Marked out of 1.00

In Adobe Photoshop and Illustrator there is a tool called Eyedropper. In Photoshop, it samples colors from an image. What does it do in Illustrator?

U Adobe Photoshopu i Illustratoru postoji alat koji se zove Eyedropper. U Photoshopu uzorkuje boje sa slike. Šta ovaj alat radi u Illustratoru?

Select one:

- a. Samples colors from an image / Uzorkuje boje sa slike
- b. Samples colors from an object / Uzorkuje boje objekta
- c. Samples properties from an image / Uzorkuje osobine sa slike
- d. Samples properties from an object / Uzorkuje osobine objekta

Question **36**

Not yet answered

Marked out of 1.00

Which of these animation techniques uses physical puppets?

Koja od navedenih tehnika animacije koristi fizičke lutke?

Select one:

- a. Direct animation / Direktna animacija
- b. Cut-out / Cut-out
- c. 3D animation / 3D animacija
- d. Stop-motion / Stop-animacija (stop-motion)

Question **37**

Not yet answered

Marked out of 1.00

Which of the following film language techniques would be most appropriate for a horror film about a dangerous killer?

Koja bi od sljedećih tehnika filmskog jezika bila najprikladnija za horor film o opasnom ubojici?

Select one:

- a. Bright high key lighting / Visoko pozicionirano osnovno svjetlo
- b. Static shot / Statički snimak
- c. Point of View shots / Kadar iz perspektive posmatrača
- d. Cheerful romantic music / Vesela romantična muzika

Question **38**

Not yet answered

Marked out of 1.00

_____ is the equal distribution of visual weight in a design.

_____ je jednaka raspodjela vizualne težine u dizajnu.

Select one:

- a. Balance / Ravnoteža
- b. Value / Vrijednost
- c. Emphasis / Naglasak
- d. Space / Prostor

Question **39**

Not yet answered

Marked out of 1.00

What is negative space?

Šta je negativni prostor?

Select one:

- a. Space within an object / Prostor unutar objekta
- b. The space between and around objects / Prostor između i oko objekata
- c. Space that is suggested in a two-dimensional work / Prostor u dvodimenzionalnom radu
- d. Space that is taken up by objects / Prostor koji zauzimaju objekti

Question **40**

Not yet answered

Marked out of 1.00

What is the function of the white balance?

Koja je funkcija balansa bijelog (white balance)?

Select one:

- a. It compensates for too little or too much light / Nadoknađuje premalo ili previše svjetla
- b. It controls depth of field / Upravlja dubinom polja
- c. It allows the camera to interpret the colours and brightness of your surroundings / Omogućuje fotoaparatu interpretaciju boja i svjetline vaše okoline
- d. It enables you to focus the camera better / Omogućuje vam bolje fokusiranje kamere

Question **41**

Not yet answered

Marked out of 1.00

_____ is the repetition or alternation of elements, often with defined intervals between them. _____ can create a sense of movement and can establish pattern and texture.

_____ je ponavljanje ili izmjena elemenata, često s definiranim intervalima između njih. _____ može stvoriti osjećaj pokreta i može uspostaviti uzorak (pattern) i teksturu.

Select one:

- a. Value / Vrijednost
- b. Rhythm / Ritam
- c. Pattern / Uzorak
- d. Emphasis / Naglasak

Question **42**

Not yet answered

Marked out of 1.00

What does a Foley artist do?

Šta radi Foley majstor?

Select one:

- a. Record dialogue / Snima dijalog
- b. Create and record sounds for use in post-production / Stvara i snima zvukove za upotrebu u postprodukciji
- c. Prepare meals for actors / Priprema obroke za glumce
- d. Help actors with their lines / Pomaže glumcima sa njihovim tekstom

Question **43**

Not yet answered

Marked out of 1.00

What effect do warm colors have in a composition?

Kakav efekat imaju tople boje u kompoziciji?

Select one:

- a. They create a sense of calm / Stvaraju osjećaj smirenosti
- b. They seem to advance towards you as if coming out of the work / Čini se da idu prema vama kao da iskaču iz crteža
- c. They seem to retreat into the distance / Kao da se povlače u daljinu
- d. They appear to create tension / Čini se da stvaraju napetost

Question **44**

Not yet answered

Marked out of 1.00

Why might a director use a musical score:

Režiser može koristiti muzičku notaciju da:

Select one:

- a. To cover up bad dialogue / Sakrije loš dijalog
- b. To fill parts with no actors / Popunjavanje dijelova bez glumaca
- c. To add extra meaning and emotion to the movie / Da bi dao dodatni smisao i emociju filmu
- d. To distract the audience / Da bi odvukao pažnju publike

Question **45**

Not yet answered

Marked out of 1.00

What is the simplest way to create balance in a piece of art or design?

Koji je najjednostavniji način stvaranja ravnoteže u umjetničkom djelu ili dizajnu?

Select one:

- a. To have larger and smaller objects on different sides / Da imaju veće i manje predmete na različitim stranama
- b. To use symmetry / Koristiti simetriju
- c. To only use a single large focal point / Koristiti samo jednu veliku žarišnu (fokalnu) tačku
- d. To use color / Koristiti boju

Question **46**

Not yet answered

Marked out of 1.00

How can you vary tone in a continuous line drawing?

Kako možete mijenjati ton u kontinuiranom linijskom crtežu?

Select one:

- a. Smudge and blend different areas / Razmažete i blendirate različite dijelove crteža
- b. By turning the pencil / Okretanjem olovke
- c. Vary the weight you apply to your pen or pencil / Različitim pritiskom na vašu olovku
- d. Change the medium you are using / Promijenite sredstvo koje koristite

Question **47**

Not yet answered

Marked out of 1.00

Which of the following is not a part of WordPress CMS core infrastructure?

Koje od navedenog nije dio osnovne WordPress CMS infrastrukture?

Select one:

- a. Plugins / Plugini
- b. Themes / Teme
- c. Extensions / Ekstenzije
- d. Widgets / Widgeti

Question **48**

Not yet answered

Marked out of 1.00

How do you create a tint?

Kako stvoriti nijansu?

Select one:

- a. Add grey to a color / Dodamo sivu na boju
- b. Add blue to a color / Dodamo plavu na boju
- c. Add white to a color / Dodamo bijelu na boju
- d. Add black to a color / Dodamo crnu na boju

Question **49**

Not yet answered

Marked out of 1.00

What is a silhouette?

Šta je silueta?

Select one:

- a. The black parts of a composition / Crni dijelovi kompozicije
- b. A collection of evenly spread shadows / Skup ravnomjerno raspoređenih sjena
- c. A simple, geometric shape used to represent a natural object / Jednostavan geometrijski oblik koji se koristi za predstavljanje objekta iz prirode
- d. The outline of a shape filled in with flat color that represents a person or object / Kontura oblika ispunjenog ravnom bojom koja predstavlja osobu ili predmet

Question **50**

Not yet answered

Marked out of 1.00

When shooting a video, there is a general rule of thumb for shutter speed and frame rate. If the frame rate is 24 fps, what should be the shutter speed?

Prilikom snimanja videa postoji generalno pravilo za brzinu zatvarača i brzinu slike (frame rate). Ako je brzina slike 24 fps, kolika bi trebala biti brzina zatvarača?

Select one:

- a. 1/50th
- b. 1/50th
- c. 1/125th
- d. 1/100th

Department of Genetics and Bioengineering

Question **1**

Not yet answered

Marked out of 1.00

G2X, J4V, M8T, ?, S32P

Select one:

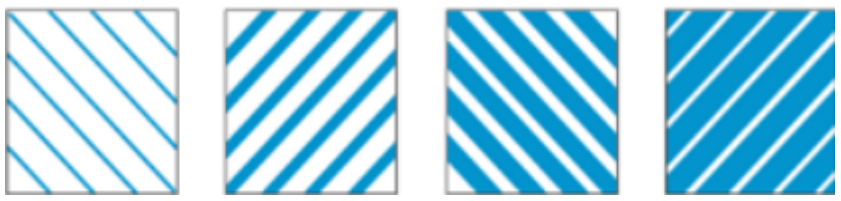
- a. N64S
- b. P8S
- c. P16R
- d. Q16R

Question **2**

Not yet answered

Marked out of 1.00

Logic



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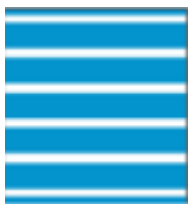
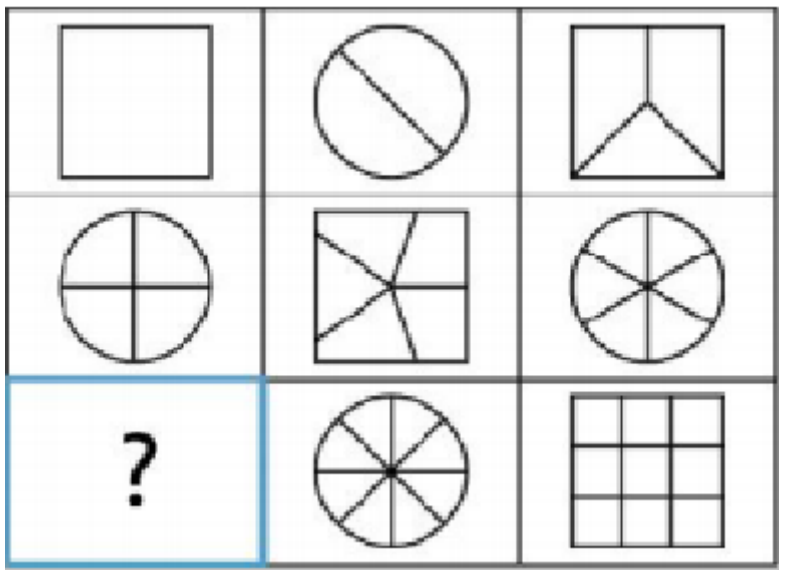
- b. 
- c.
- d.

Question **3**

Not yet answered

Marked out of 1.00



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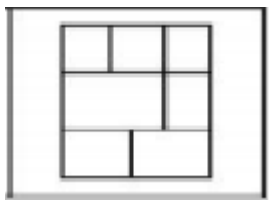
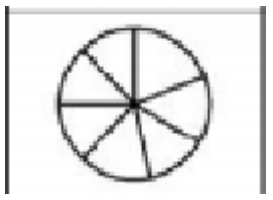
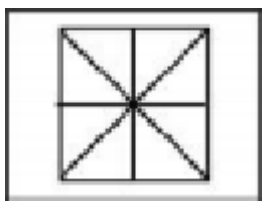
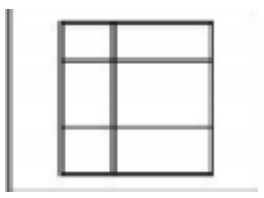
a. 

b. 

c. 

d. 

Question **4**

Not yet answered

Marked out of 1.00

6 gardeners plant 6 trees in 6 minutes. How many gardeners will be needed to plant 60 trees in 60 minutes?

6 vrtlara posadi 6 drveća u 6 minuta. Koliko vrtlara je potrebno da posade 60 drveća u 60 minuta?

Select one:

a. 6 vrtlara

b. 10 vrtlara

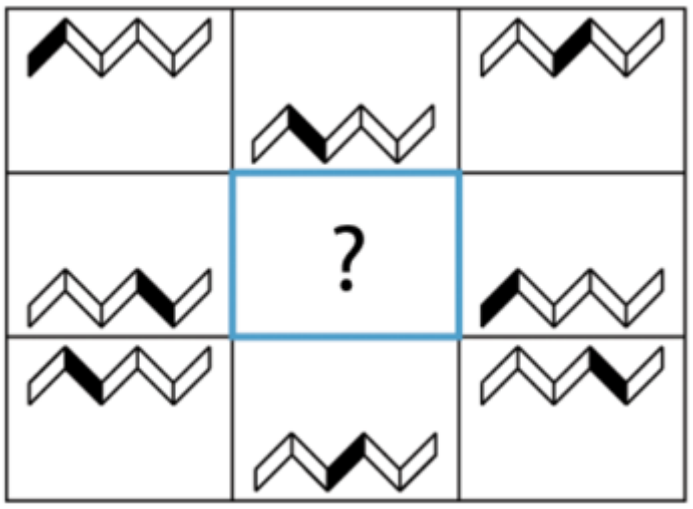
c. 60 vrtlara

d. 15 vrtlara

Question **5**

Not yet answered

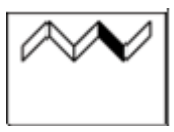
Marked out of 1.00



Select one:

a.

b.

c. 

d.

Question **6**

Not yet answered

Marked out of 1.00

9 | 2 | 7 | -5 | 12 | ? | 29

Select one:

a. 13

b. -9

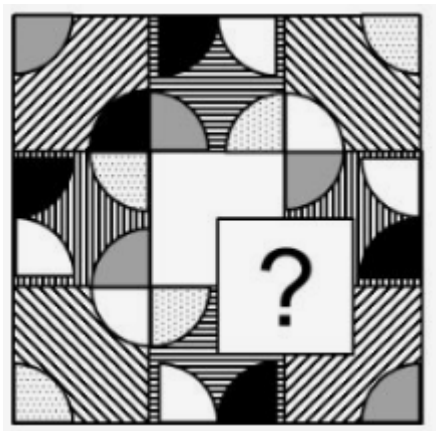
c. 3

d. -17

Question **7**

Not yet answered

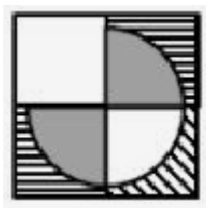
Marked out of 1.00



Select one:

a.

b.

c. 

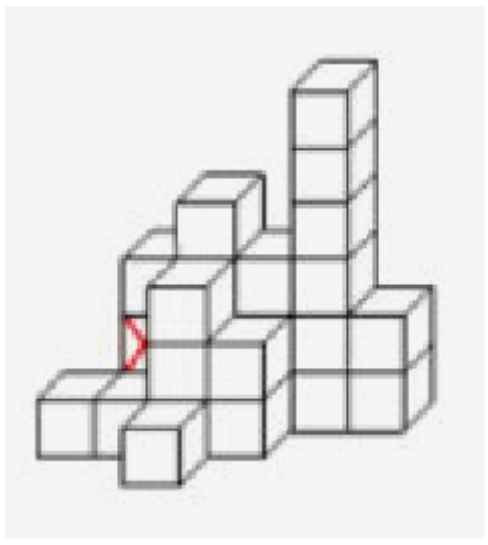
d.

Question **8**

Not yet answered

Marked out of 1.00

Each box is of similar size and must be places either on the ground or on another box. A box touches another box if they have at least one adjacent face or edge (not including vertices). How many other boxes touch the marked box with X? / Svaka kutija je iste veličine i postavljena je ili na podlogu ili na drugu kutiju. Kutija dodiruje drugu kutiju ako imaju barem jedno susjedno lice ili rub (ne uključujući vrhove). Koliko drugih kutija dodiruje označenu kutiju sa X?



Select one:

a. 6

b. 5

c. 4

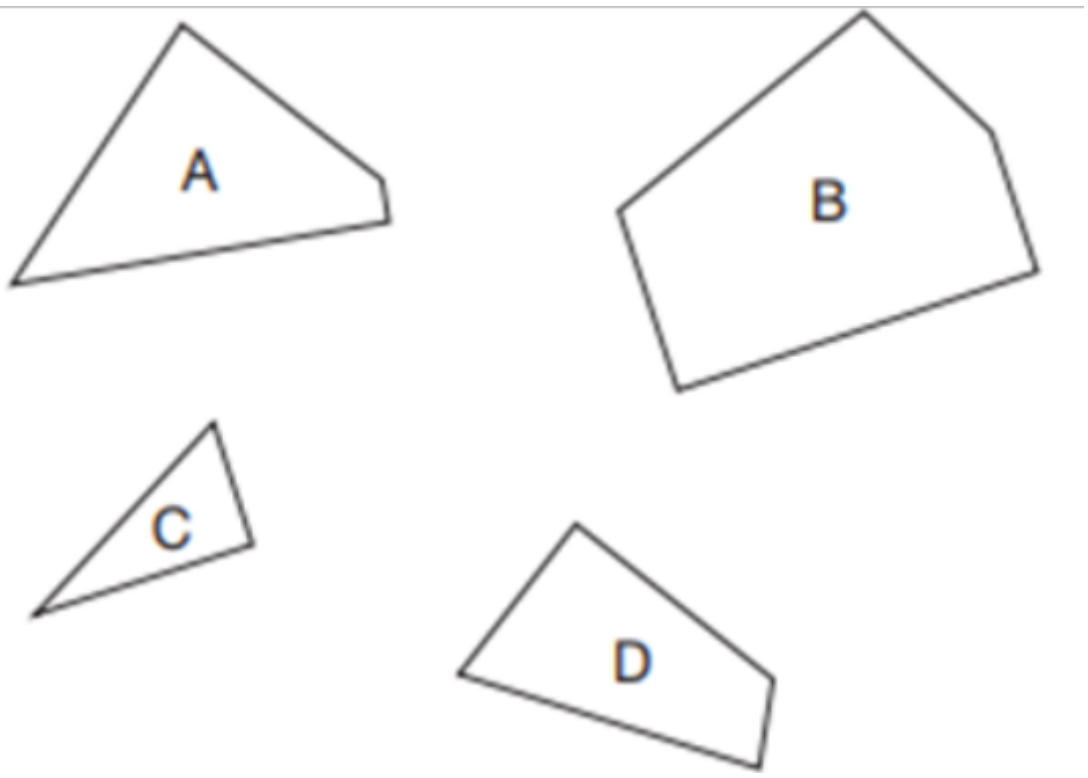
d. 7

Question **9**

Not yet answered

Marked out of 1.00

Which three of the four pieces below can be fitted together to form a perfect square? / Koja tri od četiri dijela zajedno čine kvadrat?



Select one:

- a. BDA
- b. DCA
- c. ACB
- d. CDB

Question **10**

Not yet answered

Marked out of 1.00

Select three figures out of the following five figures which when fitted into each other would form a square.

Odaberi tri figure od ponuđenih pet koje, kada se spoje, formiraju kvadrat.

Select one:

- a. 2, 3, 4
- b. 1, 2, 4
- c. 1, 2, 5
- d. 5, 3, 1

Question **11**

Not yet answered

Marked out of 1.00

Energija pohranjena u hemijskim vezama je:

Energy stored in chemical bonds is:

Select one:

- a. kinetička energija/kinetic energy
- b. hemijska energija/chemical energy
- c. potencijalna energija/potential energy
- d. nuklearna energija/nuclear energy

Question **12**

Not yet answered

Marked out of 1.00

Uređaj koji otkriva elektromagnetske valove.

Device that detects electromagnetic waves.

Select one:

- a. Kronometar/Chronometer
- b. Radar/Radar
- c. Prijemnik/Receiver
- d. Kurvimetar/Curvimeter

Question **13**

Not yet answered

Marked out of 1.00

"Ako na objekt ne djeluje rezultirajuća sila, njegova se brzina neće promijeniti" definicija je

"If there is no resultant force acting on an object, its velocity won't change" is definition of

Select one:

- a. Newtonovog drugog zakona/Newton's Second Law
- b. Newtonovog prvog zakona (zakona inercije)/Newton's First Law (Law of inertia)
- c. Newtonovog trećeg zakon/Newton's Third Law
- d. Razlike između pomaka i brzine/Difference between displacement and speed

Question **14**

Not yet answered

Marked out of 1.00

Virtual image can be formed by one or more of the following single mirrors? Identify them.

Virtualnu sliku može oblikovati jedan ili više sljedećih pojedinačnih ogledala? To su:

Select one:

- a. convex spherical mirror/konveksno sferno ogledalo
- b. all of these /sve navedeno
- c. plane mirror/ravno ogledalo
- d. concave spherical mirror/konkavno sferno ogledalo

Question **15**

Not yet answered

Marked out of 1.00

Pravilo da je sila uzgona na nekom objektu jednaka težini tekućine koju objekt istiskuje

The rule that the buoyant force on an object is equal to the weight of fluid the object displaces

Select one:

- a. Newtonov prvi zakon/Newton's First Law
- b. Neuravnotežene snage/Unbalanced forces
- c. Newtonov drugi zakon/Newton's Second Law
- d. Arhimedovo načelo/Archimedes' Principle

Question **16**

Not yet answered

Marked out of 1.00

The wave nature of light is demonstrated by which of the following?

Tehnička priroda svjetlosti pokazuje se sljedećim?

Select one:

- a. diffraction/difrakcija
- b. color/boja
- c. the photoelectric effect/fotoelektrični efekt
- d. the speed of light/brzina svjetlosti

Question **17**

Not yet answered

Marked out of 1.00

A Newton is equal to which of the following?

Newton je jednak sljedećem?

Select one:

- a. meter per second squared/metar u sekundi na kvadrat
- b. kilogram per meter-second/kilogram po metru-sekundi
- c. kilogram-meter per second squared/kilogram-metar u sekundi na kvadrat
- d. kilogram-meter per second/kilogram-metar u sekundi

Question **18**

Not yet answered

Marked out of 1.00

Two forces have magnitudes of 11 newtons and 5 newtons. The magnitude of their sum could NOT be equal to which of the following values?

Dvije sile imaju jačinu od 11 Njutna i 5 Njutna. Veličina njihove sume NE MOŽE biti jednaka sljedećoj vrijednosti?

Select one:

- a. 7 newtons
- b. 9 newtons
- c. 16 newtons
- d. 5 newtons

Question **19**

Not yet answered

Marked out of 1.00

A block of metal which weighs 60 newtons in air and 40 newtons under water has a density, in kilograms per meter cubed, of:

Metalni blok težak 60 Njutna u zraku i 40 Njutna pod vodom ima gustoću, u kilogramima po metru kubično, od:

Select one:

- a. 5000
- b. 3000
- c. 7000
- d. 1000

Question **20**

Not yet answered

Marked out of 1.00

For a negative point charge, the electric field vectors:

Za negativni tačkasti naboj, vektori električnog polja:

Select one:

- a. point radially in toward the charge/usmjeren radijalno prema naboju
- b. circle the charge/zaokruženi naboj
- c. point radially away from the charge/usmjeren radijalno od naboja
- d. cross at infinity/križa se u beskonačnosti

Question **21**

Not yet answered

Marked out of 1.00

Koja je formula gustoće neke tvari (ako nije u čvrstom stanju)?;

What is the formula for density of a substance (if it is not solid)?

Select one:

- a. Volumen/masa; Volume/Mass
- b. Masa tvari/Molekularna težina; Mass of a substance/Molecular weight
- c. Masa/Volumen; Mass/Volume
- d. Broj atoma/Moli; Number of atoms/Mole

Question **22**

Not yet answered

Marked out of 1.00

_____ je mješavina 2 ili više tvari u jednoj fazi; A _____ is a mix of 2 or more substances into a single phase.

Select one:

- a. Rastvor; Solute
- b. Otapalo tj. Rastvarač; Solvent
- c. Ništa od navedenog; None of the above
- d. Otopina; Solution

Question **23**

Not yet answered

Marked out of 1.00

Atomski broj je jednak; Atomic number is equal to:

Select one:

- a. Broj protona i neutrona u jezgri; The number of protons and neutrons in the nucleus
- b. Broj neutrona u jezgri; The number of neutrons in the nucleus
- c. Broj elektrona izvan jezgre; The number of electrons outside of the nucleus
- d. Broj protona u jezgri; The number of protons in the nucleus

Question **24**

Not yet answered

Marked out of 1.00

Definicija elementa je; The definition of an element is:

Select one:

- a. Najmanja pojedinačna jedinica spoja koja nema naboj, a formirana je sjedinjenjem dvaju ili više elemenata; The smallest uncharged individual unit of a compound formed by the union of two or more elements
- b. Kombinacija tačno dva atoma, koja mogu biti jednaka ili različita; The combination of exactly two atoms, which may be alike or different
- c. Temeljna tvar koja se ne može hemijski razgraditi na jednostavnije tvari; A fundamental substance that cannot be broke down by chemical means to simpler substances
- d. Spoj kojeg čine tvari koje privlače snage između njihovih pozitivnih i negativnih naboja; A compound held together by attractive forces between their positive and negative charges

Question **25**

Not yet answered

Marked out of 1.00

U formuli m = n x M, šta predstavlja m?; In the formula m = n x M, what does m stand for?

Select one:

- a. Masu tvari / Mass of substance
- b. Količinu tvari / Amount of substance
- c. Broj protona i neutrona/Number of protons and neutrons
- d. Molekularnu masa / Molecular mass

Question **26**

Not yet answered

Marked out of 1.00

Defnicija elektrolita je; The definition of an electrolyte is:

Select one:

- a. Najmanja nenaelektrisana jedinica spoja formirana sjedinjenjem dvaju ili više elemenata; The smallest uncharged individual unit of a compound formed by the union of two or more elements.
- b. Elektrolit je tvar koja ne može provesti elektricitet kad se otopi u vodi; An electrolyte is a substance that cannot conduct electricity when dissolved in water.
- c. Sastav koji vezan uz pomoć pozitivnih i negativnih naboja; A compound held together by attractive forces between their positive and negative charges.
- d. Elektrolit je tvar koja može provesti elektricitet kad se otopi u vodi; An electrolyte is a substance that can conduct electricity when dissolved in water.

Question **27**

Not yet answered

Marked out of 1.00

Kako se zove ionski spoj: MgS?; What is the name for the ionic compound: MgS?

Select one:

- a. Magnezijev monosulfid; Magnesium monosulfide
- b. Magnezijev sulfid; Magnesium sulfide
- c. Monomagenzij sulfid; Monomagensium sulfide
- d. Magnezijev sumpor; Magnesium sulfur

Question **28**

Not yet answered

Marked out of 1.00

12 g šljunka i 18 g pijeska pomiješano. Koliki je postotak šljunka i pijeska u smjesi?; 12g of gravel and 18 g of sand a mixed. What is the percentage of gravel and sand in the mixture?

Select one:

- a. 20% šljunka i 80% pijeska; 20% gravel and 80% sand
- b. 80% šljunka i 20% pijeska; 80% gravel and 20% sand
- c. 40% šljunka i 60% pijeska; 40% gravel and 60% sand
- d. 40% pijeska i 60% šljunka; 40% sand and 60% gravel

Question **29**

Not yet answered

Marked out of 1.00

Izračunajte masu jednog atoma kisika; Calculate the mass of one atom of oxygen. Ar(O) = 16

Select one:

- a. 2.657×10^{-23} g
- b. 1.346×10^{-23} g
- c. 1.452×10^{-18} g
- d. 5.106×10^{-23} g

Question **30**

Not yet answered

Marked out of 1.00

_____ su promjene u fizičkim svojstvima ili promjene u stanju materije bez popratne promjene u sastavu, a _____ uzrokuje stvaranje različitih tvari koje imaju različita svojstva i sastav od originalnog materijala;
_____ are changes in physical properties or changes in the state of matter without any accompanying change in composition and _____ causes different substances to form that have different properties and composition from the original material.

Select one:

- a. Hemijske promjene/ fizičke promjene; Chemical changes; physical changes
- b. Reakcija promjene; fizičke promjene; Reaction changes/ physical changes
- c. Broj neutrona u jezgri; The number of neutrons in the nucleus
- d. Fizičke promjene; hemijske promjene; Physical changes/ chemical changes

Question **31**

Not yet answered

Marked out of 1.00

Kada se zagrijava na zraku, 1,63 g cinka (Zn) se spoji sa 0,40 g kisika (O) i tvori cinkov oksid. Izračunajte postotni sastav pronađenog spoja (zaokružite odgovor na 0 decimalnih mjesta); When heated with in air, 1.63 g of zinc (Zn) combines with 0.40 g of oxygen (O) to form zinc oxide. Calculate the percent composition of the compound found (round the answer to 0 decimal places).

Select one:

- a. 65% Zn i 35% O; 65% Zn and 35% O
- b. 80% Zn i 20% O; 80% Zn and 20% O
- c. 75% Zn i 25% O; 75% Zn and 25% O
- d. 35% Zn i 65% O; 35% Zn and 65% O

Question **32**

Not yet answered

Marked out of 1.00

Kolika je masa 1 mola sumporne kiseline (H_2SO_4)?; What is the mass of 1 mol of sulfuric acid (H_2SO_4)?

Ar(H) = 1.008 g; Ar(S) = 32.07 g; Ar(O) = 16.00 g

Select one:

- a. 87.96 g
- b. 91.36 g
- c. 25.36 g
- d. 98.09 g

Question **33**

Not yet answered

Marked out of 1.00

Koliko mola kalijevog permanganata (KMnO4) se nalazi u 8 g tog spoja?; How many moles of potassium permanganate ($KMnO_4$) is contained in 8 g of that compound?

Ar(K) = 39.1; Ar(Mn) = 54.94; Ar(O) = 16

Select one:

- a. 0.07 mol
- b. 0.05 mol
- c. 0.03 mol
- d. 0.10 mol

Question **34**

Not yet answered

Marked out of 1.00

Kako se zove sljedeći ionski spoj: Cu_2O?;

What is the name of the following ionic compound: Cu_2O?

Select one:

- a. Bakar kisik; Copper oxygen
- b. Bakar (I) oksid; Copper (I) oxide
- c. Bakar (II) oksid; Copper (II) oxide
- d. Bakar oksid; Copper oxide

Question **35**

Not yet answered

Marked out of 1.00

Kako se zove sljedeći molekularni spoj: N_2O_5?;

What is the name of the following molecular compound: N_2O_5?

Select one:

- a. Dušikov pentoksid; Nitrogen pentoxide
- b. Ugljikov monoksid; Carbon monoxide
- c. Dinitrogen oksid; Dinitrogen oxide
- d. Dinitrogen pentoksid; Dinitrogen pentoxide

Question **36**

Not yet answered

Marked out of 1.00

Tipovi heterohromatina; Types of heterochromatin

Select one:

- a. Euhromatin i konstitutivni hromatin; Euchromatin and constitutive chromatin
- b. Euhromatin i heterohromatin; Euchromatin and heterochromatin
- c. Konstitutivni i fakultativni; Constitutive and facultative
- d. Fakultativni i heterohromatin; Facultative and heterochromatin

Question **37**

Not yet answered

Marked out of 1.00

Koje organelle su karakteristične po izvođenju detoksikacije; Which organelle is characteristic for carrying out detoxication

Select one:

- a. Mitohondrija; Mitochondria
- b. Grubi endoplazmatski reticulum; Rough endoplasmatic reticulum
- c. Glatki endoplazmatski reticulum; Smooth endoplasmatic reticulum
- d. Hloroplast; Chloroplast

Question **38**

Not yet answered

Marked out of 1.00

Struktura proteina ovisi isključivo o; The structure of a protein is solely determined by its':

Select one:

- a. Aminokiselinskoj sekvenci; Amino acid sequence
- b. Nijedan odgovor nije tačan; None of the above
- c. Monosaharidnoj sekvenci; Monosaccharide sequence
- d. Nukleotidnoj sekvenci; Nucleotide sequence

Question **39**

Not yet answered

Marked out of 1.00

Koji od sljedećih enzima ima sposobnost da „siječe“ DNA lance;

Which of the following enzymes has the ability to „cut“ the DNA strands:

Select one:

- a. RNA polimeraza; RNA polymerase
- b. Restrikcioni enzimi; Restriction enzymes
- c. Ligaza; Ligase
- d. DNA polimeraza; DNA polymerase

Question **40**

Not yet answered

Marked out of 1.00

Floem i ksilem su primjeri kojeg tipa tkiva; Phloem and xylem in plants are examples of which type of tissues

Select one:

- a. Nijedan odgovor nije tačan; None of the above
- b. Epidermis
- c. Bazično tkivo; Ground tissue
- d. Vaskularno tkivo; Vascular tissue

Question **41**

Not yet answered

Marked out of 1.00

DNA je dvostruki heliks gdje su dva lanca; DNA is a double stranded helix where the two strands are:

Select one:

- a. Antiparalelna i komplementarna; Anti-parallel and complementary
- b. Paralelna i komplementarna; Parallel and complementary
- c. Paralelna i antikomplementarna; Parallel and anti-complementary
- d. Antiparalelna i antikomplementarna; Anti-parallel and anti-complementary

Question **42**

Not yet answered

Marked out of 1.00

Populacija je; Population is:

Select one:

- a. Globalni ekološki sistem koji integrira sva živa bića sa njihovim interakcijama uključujući interakcije sa elementima litosfere, geosfere, hidrosfere i atmospfere; the global ecological system integrating all living beings and their relationships, including their interaction with the elements of the lithosphere, geosphere, hydrosphere, and atmosphere.
- b. Najveća grupa organizama u kojoj dvije individue mogu produkovati plodno potomstvo, obično seksulanom reprodukcijom; the largest group of organisms in which two individuals can produce fertile offspring, typically by sexual reproduction.
- c. Svi organizmi iz iste grupe ili vrste, koji žive na određenom geografskom području i imaju sposobnost međusobnog razmnožavanja; all the organisms of the same group or species, which live in a geographical area, and have the capability of interbreeding.
- d. Biološka zajednica organizama koji su u interakciji i njihova okolina; a biological community of interacting organisms and their physical environment.

Question **43**

Not yet answered

Marked out of 1.00

Vrsta je; A species is:

Select one:

- a. Svi organizmi iz iste grupe ili vrste, koji žive na određenom geografskom području i imaju sposobnost međusobnog razmnožavanja; All the organisms of the same group or species, which live in a particular geographical area, and have the capability of interbreeding.
- b. Biološka zajednica organizama koji su u interakciji i njihova okolina; A biological community of interacting organisms and their physical environment.
- c. Najveća grupa organizama u kojoj dvije individue mogu produkovati plodno potomstvo, obično seksulanom reprodukcijom; The largest group of organisms in which two individuals can produce fertile offspring, typically by sexual reproduction.
- d. Globalni ekološki sistem koji integrira sva živa bića sa njihovim interakcijama uključujući interakcije sa elementima litosfere, geosfere, hidrosfere i atmospfere; The global ecological system integrating all living beings and their relationships, including their interaction with the elements of the lithosphere, geosphere, hydrosphere, and atmosphere.

Question **44**

Not yet answered

Marked out of 1.00

Hromatin koji je transkripciono aktivan zove se; Chromatin that is transcriptionally active is called:

Select one:

- a. Heterohromatin; Heterochromatin
- b. Nijedan odgovor nije tačan; None of the answers is correct
- c. Euhromatin; Euchromatin
- d. Euhromatin i Heterohromatin ; Euchromatin i Heterochromatin

Question **45**

Not yet answered

Marked out of 1.00

Koji je od sljedećih enzima povezan sa terminom „replicative senesence“; Which of the following enzymes is connected with the term „replicative senesence“

Select one:

- a. Helikaza; Helicase
- b. Telomeraza; Telomerase
- c. Ligaza; Ligase
- d. Izomeraza; Isomerase

Question **46**

Not yet answered

Marked out of 1.00

Transkribiraj sljedeće sekvence: 3’ ATTCGGAT 5’; Transcribe the following sequence: 3’ ATTCGGAT 5’.

Select one:

- a. 3’ UAACGGUA 5’
- b. 5’ UAAGCCUA 3’
- c. 5’ TAAGCCTA 3’
- d. 3’ UCCGAAUA 5’

Question **47**

Not yet answered

Marked out of 1.00

Tipovi hrskavice; Types of cartilage

Select one:

- a. Glatka, poprečno prugasta; Smooth, striated
- b. Intermembranska, enhondralna; Intermembrane, enchondral
- c. Rahla, gusta; Loose, dense
- d. Hijalina, elastična, fibrozna; Hyaline, elastic, fibrous

Question **48**

Not yet answered

Marked out of 1.00

Kvadrupleti i “holiday junction” su termini povezani sa kojom grupom molekula; Quadruplets and holiday junctions are terms connected to which group of molecules:

Select one:

- a. Lipidi; Lipids
- b. Ugljikohidrati; Carbohydrates
- c. Nukleinske kiseline; Nucleic acids
- d. Proteini; Protein

Question **49**

Not yet answered

Marked out of 1.00

Arabidopsis thaliana pripada sljedećem kraljevstvu; Arabidopsis thaliana belongs to the following kingdom

Select one:

- a. Plantae
- b. Animalia
- c. Monera
- d. Protista

Question **50**

Not yet answered

Marked out of 1.00

T3 i T4 hormoni se produkuju; T3 and T4 hormones are produced in:

Select one:

- a. Pankreasu; Pancreas
- b. Adrenalnoj žlijezdi; Adrenal Gland
- c. Pituitarnoj žlijezdi; Pituitary Gland
- d. Tiroidnoj žlijezdi; Thyroid Gland

Department of English Language and Literature

Question **1**

Not yet answered

Marked out of 1.00

6 gardeners plant 6 trees in 6 minutes. How many gardeners will be needed to plant 60 trees in 60 minutes?

6 vrtlara posadi 6 drveća u 6 minuta. Koliko vrtlara je potrebno da posade 60 drveća u 60 minuta?

Select one:

- a. 10 vrtlara
- b. 6 vrtlara
- c. 60 vrtlara
- d. 15 vrtlara

Question **2**

Not yet answered

Marked out of 1.00

Logic

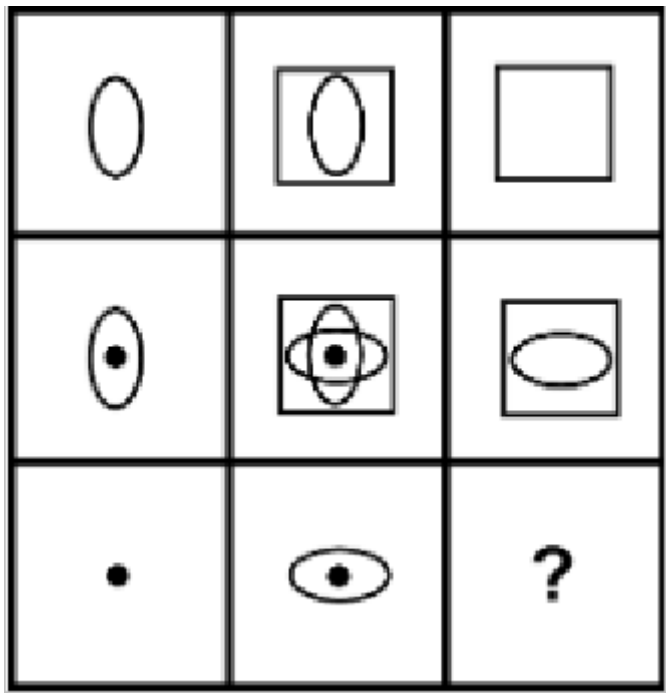
Select one:

- a.
- b.
- c.
- d.

Question **3**

Not yet answered

Marked out of 1.00



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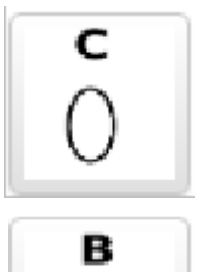
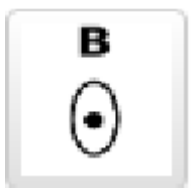
a. 

b. 

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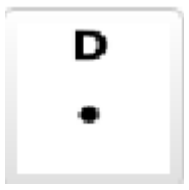
d. 

Question **4**

Not yet answered

Marked out of 1.00

BCD4, B5CD, ?, BCD7

Select one:

a. BC6D7

b. B6CD

c. BC6D

d. BCD6

Question **5**

Not yet answered

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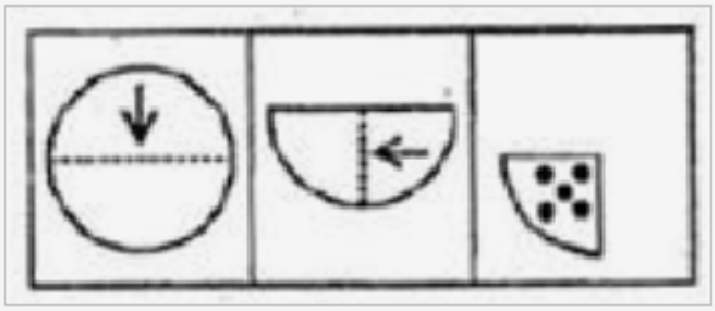

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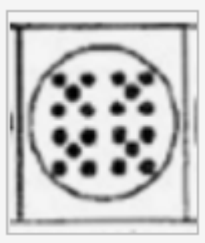
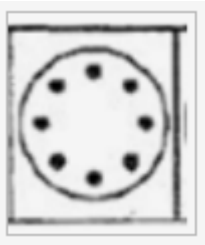
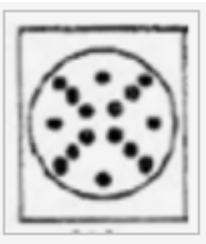
b. 

c. 

d. 

Question **6**

Not yet answered

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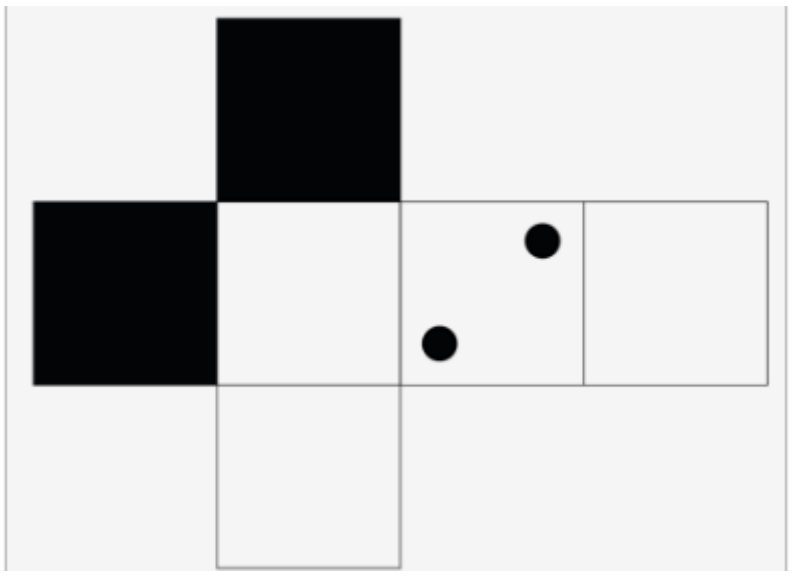

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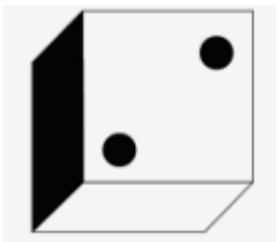
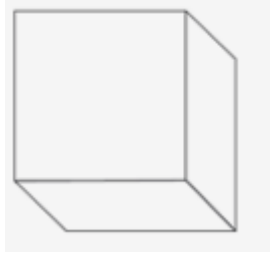
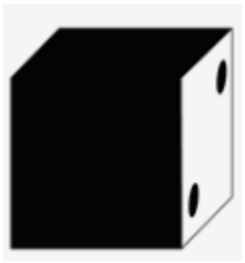
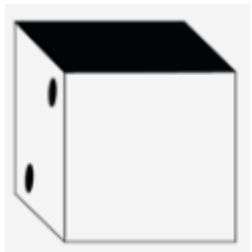
a. 

b. 

c. 

d. 

Question **7**

Not yet answered

Marked out of 1.00

In a certain code

‘light is very sharp’ is coded as 8243,

‘right is very wrong’ is coded as 2817,

‘knife is sharp’ is coded as 548 and

‘wrong and sharp’ is coded as 476.

How is the word "right" coded?

U određenom kodu

‘light is very sharp’ je kodirano kao 8243,

‘right is very wrong’ je kodirano kao 2817,

‘knife is sharp’ je kodirano kao 548 i

‘wrong and sharp’ je kodirano kao 476.

Kako je kodirana riječ “right”?

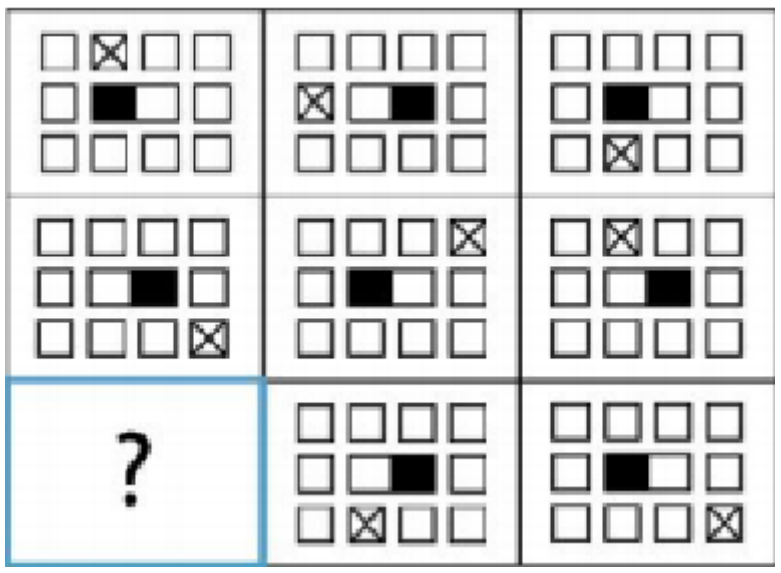
Select one:

- a. 2
- b. 1
- c. 4
- d. 3

Question **8**

Not yet answered

Marked out of 1.00



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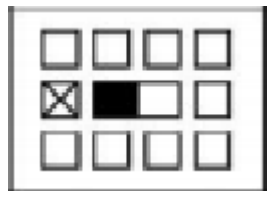
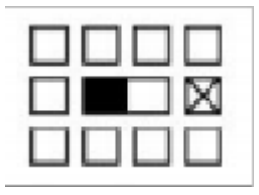
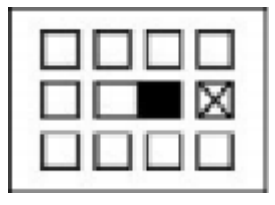
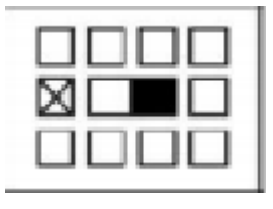
- a. 
- b. 
- c. 
- d. 

Question **9**

Not yet answered

Marked out of 1.00

2, 6, 12, 20, 30, 42, 56, ?

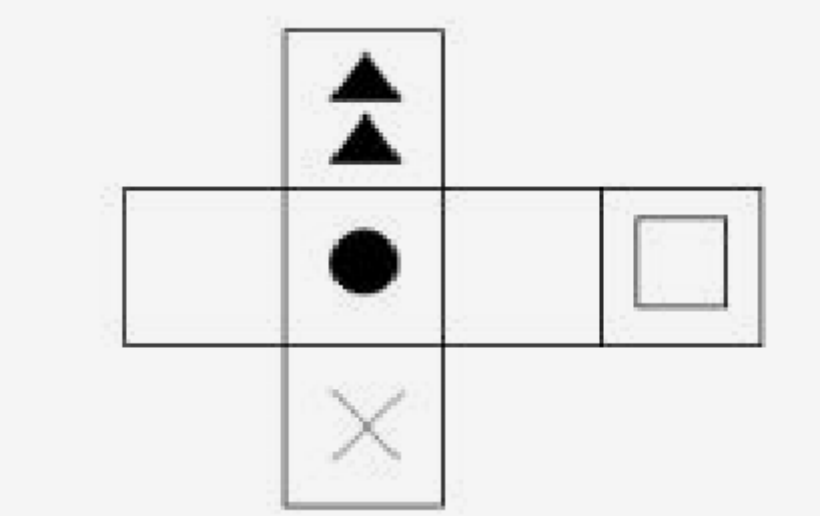
Select one:

- a. 72
- b. 61
- c. 70
- d. 64

Question **10**

Not yet answered

Marked out of 1.00



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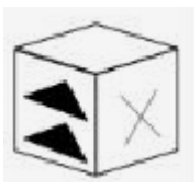
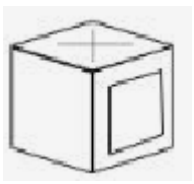
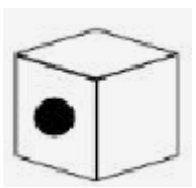
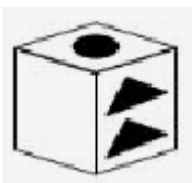
- a. 
- b. 
- c. 
- d. 

Question **11**

Not yet answered

Marked out of 1.00

Music can be a great _____ for relaxation, stimulation and communication.

Select one:

- a. favor
- b. track
- c. device
- d. tool

Question **12**

Not yet answered

Marked out of 1.00

Jane didn't _____ the party's rules so the members demanded her expulsion.

Select one:

- a. conceive
- b. imitate
- c. obey
- d. listen

Question **13**

Not yet answered

Marked out of 1.00

After hearing a tornado warning our family took _____ in the bases.

Select one:

- a. shelter
- b. promotion
- c. registration
- d. protection

Question **14**

Not yet answered

Marked out of 1.00

They insisted that they broke the vase by accident but the store manager claimed that it was totally _____.

Select one:

- a. delightful
- b. accidental
- c. intentional
- d. actual

Question **15**

Not yet answered

Marked out of 1.00

_____ water is one of the essential resources for human survival.

Select one:

- a. Spoiled
- b. Tap
- c. Fresh
- d. Imported

Question **16**

Not yet answered

Marked out of 1.00

I don't know how we are going to get to the airport. We will have to ____ for a taxi to come.

Select one:

- a. hire
- b. book
- c. plan
- d. arrange

Question **17**

Not yet answered

Marked out of 1.00

Which is NOT a part of speech?

Select one:

- a. Verb
- b. Preposition
- c. Interjection
- d. Punctuation

Question **18**

Not yet answered

Marked out of 1.00

A word formed from initial letters from other words is called _____.

Select one:

- a. opposite
- b. antonym
- c. acronym
- d. synonym

Question **19**

Not yet answered

Marked out of 1.00

They live about _____ from here.

Select one:

- a. a drive of an hour
- b. an hour's drive
- c. a drive hour
- d. an hour of drive

Question **20**

Not yet answered

Marked out of 1.00

_____ people eat healthy food.

Select one:

- a. very little
- b. very least
- c. very few
- d. very less

Question **21**

Not yet answered

Marked out of 1.00

The students have _____ one hour to finish their examination.

Select one:

- a. greatly
- b. exactly
- c. notably
- d. accurately

Question **22**

Not yet answered

Marked out of 1.00

_____ had I left the shop_____ I remembered that I'd left my credit card there.

Select one:

- a. The more /the less
- b. Neither/ nor
- c. Either/ or
- d. No sooner/than

Question **23**

Not yet answered

Marked out of 1.00

My grandmother _____ for 62 years before dying at the age of 89!

Select one:

- a. has smoked
- b. have smoked
- c. smoked
- d. was smoking

Question **24**

Not yet answered

Marked out of 1.00

Jay had seen _____ the snake _____ the wasp nest on the tree.

Select one:

- a. neither/nor
- b. neither/or
- c. either/nor
- d. either/or

Question **25**

Not yet answered

Marked out of 1.00

When you decide to do something difficult or unpleasant that you have been putting off or been hesitant about, it is said that you decided to _____ the bullet.

Select one:

- a. catch
- b. drop
- c. bite
- d. trigger

Question **26**

Not yet answered

Marked out of 1.00

They believe that this is an _____ book for students preparing for proficiency exams in English.

Select one:

- a. reliable
- b. accurate
- c. concrete
- d. indispensable

Question **27**

Not yet answered

Marked out of 1.00

He wouldn't be so successful now if he _____ so hard when he was at school.

Select one:

- a. wouldn't have studied
- b. hadn't studied
- c. didn't study
- d. used to study

Question **28**

Not yet answered

Marked out of 1.00

The old lady came near to _____ of pneumonia, but to everyone's amazement she pulled through.

Select one:

- a. die
- b. dying
- c. death
- d. being dead

Question **29**

Not yet answered

Marked out of 1.00

Since they moved to Iceland, they have had difficulty _____ themselves to the colder weather.

Select one:

- a. gaining
- b. adopting
- c. acclimatizing
- d. enjoying

Question **30**

Not yet answered

Marked out of 1.00

Dave hasn't worked since he had a serious accident on the assembly line at the soft drinks factory, _____?

Select one:

- a. hadn't he
- b. hasn't there
- c. has he
- d. wasn't it

Question **31**

Not yet answered

Marked out of 1.00

One who inspects or keeps financial accounts is called _____.

Select one:

- a. accountant
- b. inspector
- c. financier
- d. consultant

Question **32**

Not yet answered

Marked out of 1.00

In this small city the _____ of accommodation poses tremendous difficulty to university students whose numbers has exceeded 15000.

Select one:

- a. scarcity
- b. density
- c. remedy
- d. abundance

Question **33**

Not yet answered

Marked out of 1.00

Living things share certain properties that _____ them from inanimate objects.

Select one:

- a. distinguish
- b. endanger
- c. ratify
- d. judge

Question **34**

Not yet answered

Marked out of 1.00

You were thoroughly _____ by your work; thus I didn't want to disturb you.

Select one:

- a. concentrated
- b. indulged
- c. absorbed
- d. feared

Question **35**

Not yet answered

Marked out of 1.00

I'm very hungry. It's 11.30 and I _____ anything yet today.

Select one:

- a. didn't eat
- b. haven't eaten
- c. don't eat
- d. am not eating

Question **36**

Not yet answered

Marked out of 1.00

Where does the queen of UK live?

Select one:

- a. Kensington Palace
- b. Clarence House
- c. Buckingham Palace
- d. St. James 's Palace

Question **37**

Not yet answered

Marked out of 1.00

Who is the author of Wuthering Heights?

Select one:

- a. Jane Austen
- b. George Eliot
- c. Emily Brontë
- d. Elizabeth Gaskell

Question **38**

Not yet answered

Marked out of 1.00

Who said the words: "To be or not to be?"

Select one:

- a. King Lear
- b. Othello
- c. Macbeth
- d. Hamlet

Question **39**

Not yet answered

Marked out of 1.00

The United States re-established diplomatic relations with which country in 2015 after a 54-year gap?

Select one:

- a. Cuba
- b. Iraq
- c. North Korea
- d. China

Question **40**

Not yet answered

Marked out of 1.00

The language that has the highest number of speakers in the world is:

Select one:

- a. French
- b. Mandarin
- c. Russian
- d. English

Question **41**

Not yet answered

Marked out of 1.00

For which of the following disciplines is Nobel Prize awarded?

Select one:

- a. all of these
- b. Chemistry and Physics
- c. Literature, Peace and Economics
- d. Physiology or Medicine

Question **42**

Not yet answered

Marked out of 1.00

Who was the prime minister of the United Kingdom during the World War II?

Select one:

- a. Tony Blair
- b. Boris Johnson
- c. Margaret Thatcher
- d. Winston Churchill

Question **43**

Not yet answered

Marked out of 1.00

Which country's flag has the largest number of stars on it?

Select one:

- a. Portugal
- b. New Zealand
- c. Brazil
- d. United States

Question **44**

Not yet answered

Marked out of 1.00

How many letters are there in English alphabet?

Select one:

- a. 24
- b. 31
- c. 26
- d. 19

Question **45**

Not yet answered

Marked out of 1.00

The English Language is conventionally divided into three historical periods. In which of these periods did William Shakespeare write his plays?

Select one:

- a. Middle English
- b. Early English
- c. Old English
- d. Modern English

Question **46**

Not yet answered

Marked out of 1.00

Where are the headquarters of world’s foremost Human Rights Organization, Amnesty International, located?

Select one:

- a. Geneva
- b. Berlin
- c. New York
- d. London

Question **47**

Not yet answered

Marked out of 1.00

Which British monarch has reigned the longest?

Select one:

- a. Queen Elizabeth II
- b. Queen Victoria
- c. King Henry V
- d. King Henry VIII

Question **48**

Not yet answered

Marked out of 1.00

What is the shortest word in English?

Select one:

- a. E
- b. I
- c. In
- d. And

Question **49**

Not yet answered

Marked out of 1.00

Which French philosopher wrote the existential novel The Stranger?

Select one:

- a. Jean Jacques
- b. Ayn Rand
- c. Albert Camus
- d. Karl Raimund Popper

Question **50**

Not yet answered

Marked out of 1.00

Who invented the dynamite?

Select one:

- a. Galileo Galilei
- b. Isaac Newton
- c. Alfred Nobel
- d. Albert Einstein

Department of Digital Communication and Public Relations

Question **1**

Not yet answered

Marked out of 1.00

ADF, CFG, EHH, ?, ILJ

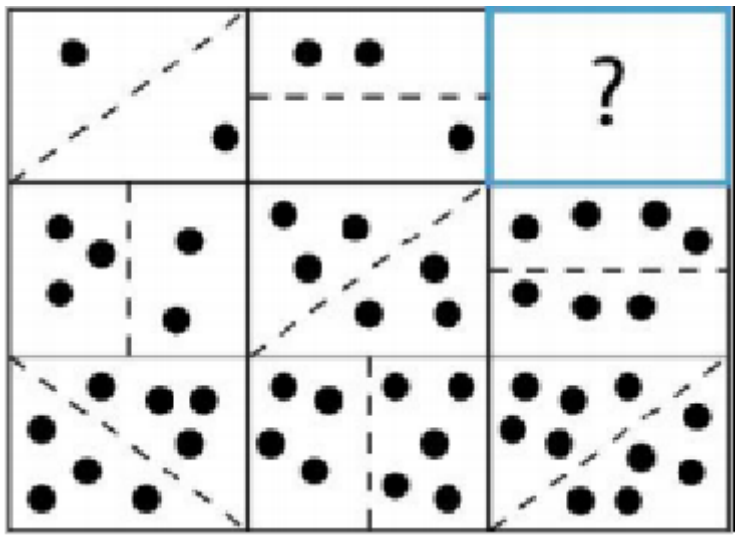
Select one:

- a. GIJ
- b. HIJ
- c. FII
- d. GJI

Question **2**

Not yet answered

Marked out of 1.00



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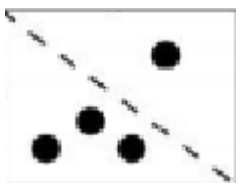
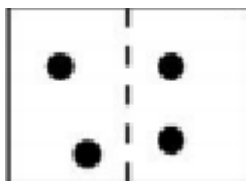
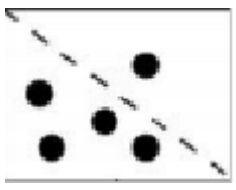
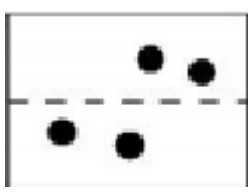
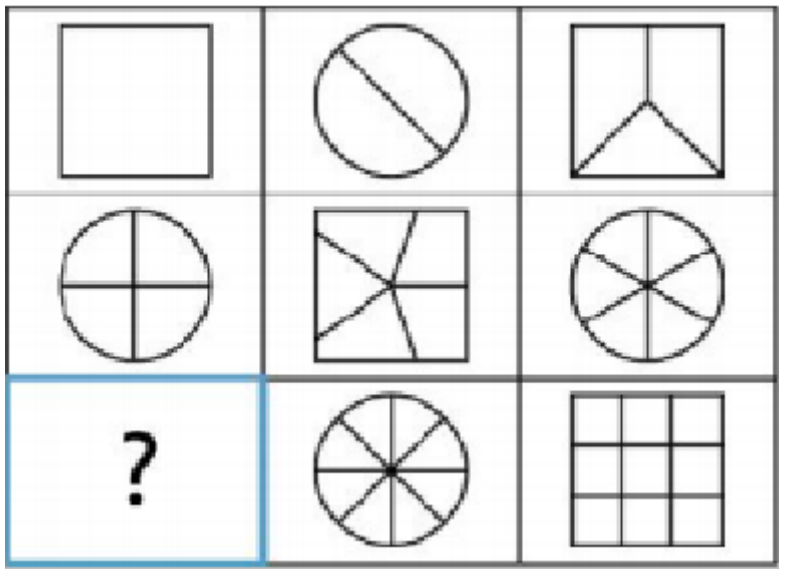
- a. 
- b. 
- c. 
- d. 

Question **3**

Not yet answered

Marked out of 1.00



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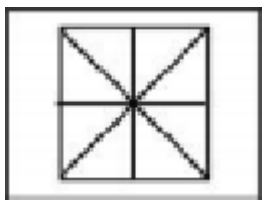
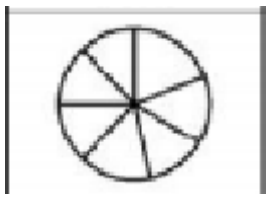
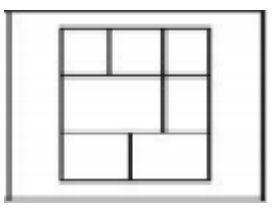
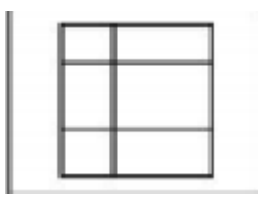
a. 

b. 

c. 

d. 

Question **4**

Not yet answered

Marked out of 1.00

80, 10, 70, 15, 60, ...

Select one:

a. 25

b. 30

c. 50

d. 20

Question **5**

Not yet answered

Marked out of 1.00

Logic

Select one:

a.

b.

c.

d.

Question **6**

Not yet answered

Marked out of 1.00

SCD, TEF, UGH, ?, WKL

Select one:

a. UJI

b. CMN

c. IJT

d. VIJ

Question **7**

Not yet answered

Marked out of 1.00

B2CD, ?, BCD4, B5CD, BC6D

Select one:

a. BCD7

b. B2C3D

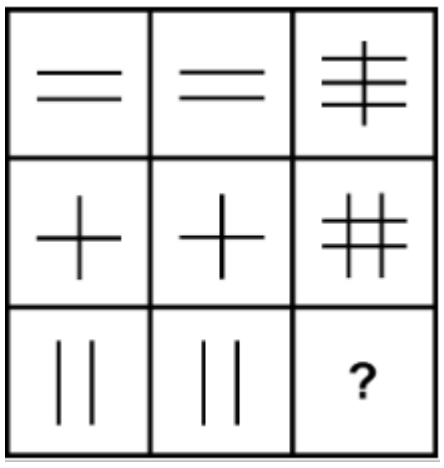
c. B2C2D

d. BC3D

Question **8**

Not yet answered

Marked out of 1.00



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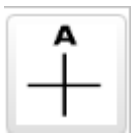
a. 

b.

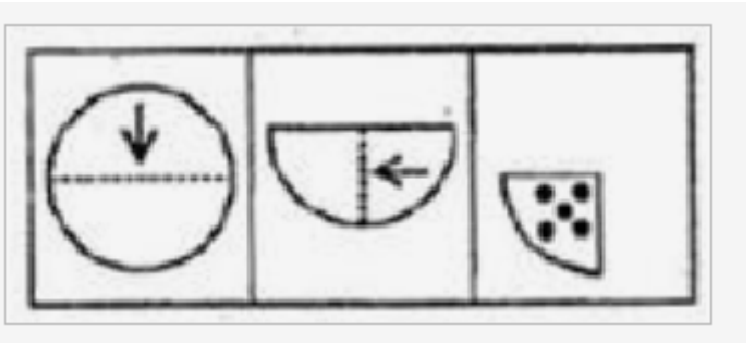
c.

d.

Question **9**

Not yet answered

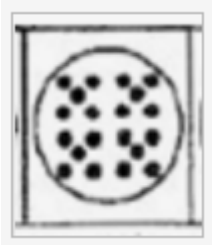
Marked out of 1.00

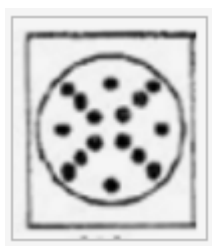


Select one:

a.

b.

c. 

d. 

Question **10**

Not yet answered

Marked out of 1.00

BCD4, B5CD, ?, BCD7

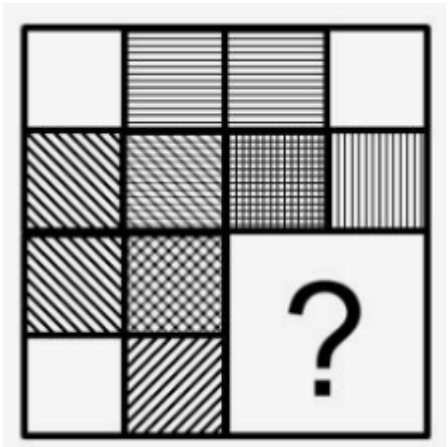
Select one:

- a. BCD6
- b. BC6D
- c. B6CD
- d. BC6D7

Question **11**

Not yet answered

Marked out of 1.00



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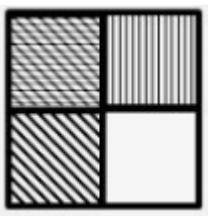
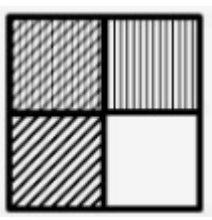
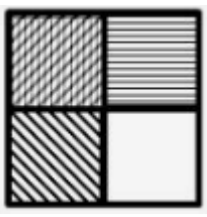
b. 

c. 

d. 

Question **12**

Not yet answered

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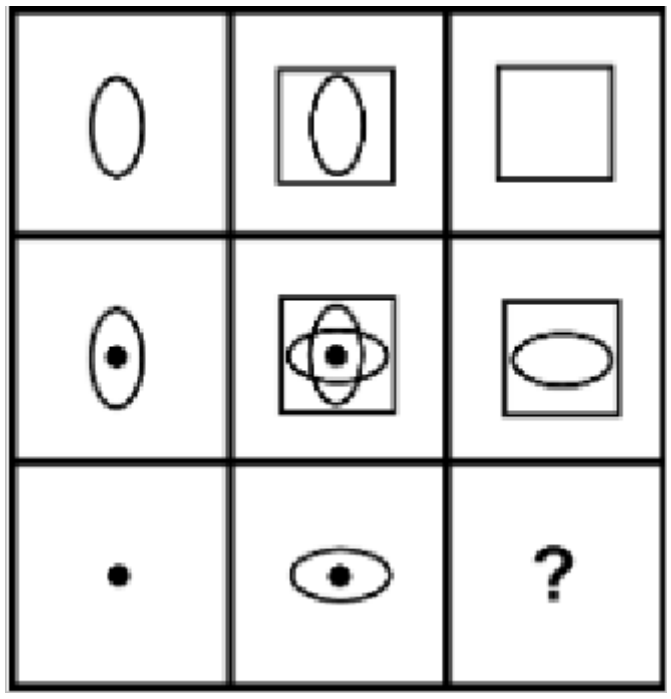

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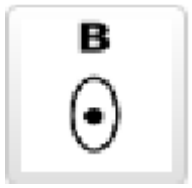
b. 

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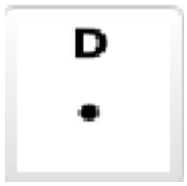
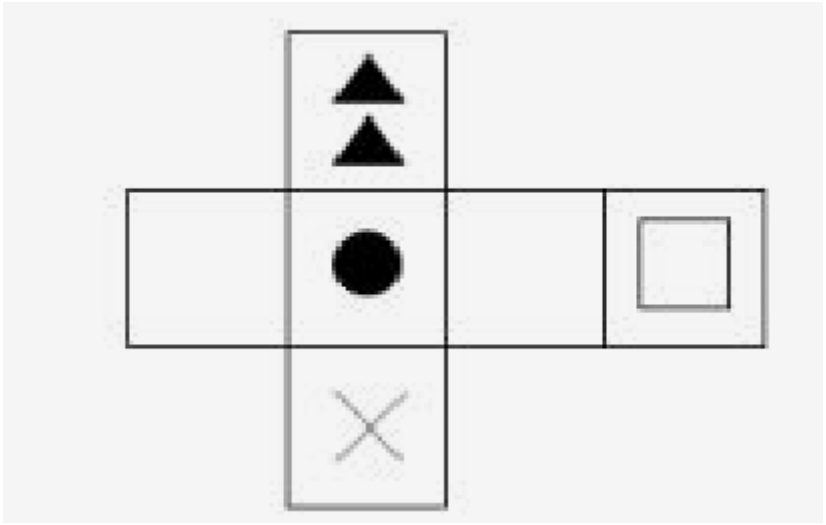
d. 

Question **13**

Not yet answered

Marked out of 1.00



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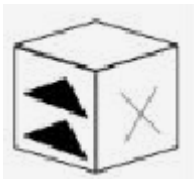
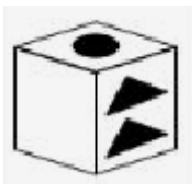
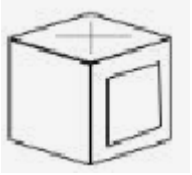
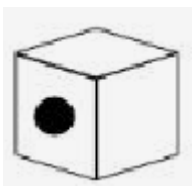
a. 

b. 

c. 

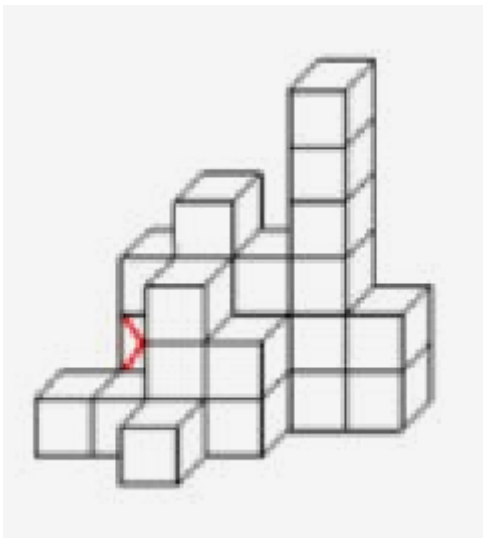
d. 

Question **14**

Not yet answered

Marked out of 1.00

Each box is of similar size and must be places either on the ground or on another box. A box touches another box if they have at least one adjacent face or edge (not including vertices). How many other boxes touch the marked box with X? / Svaka kutija je iste veličine i postavljena je ili na podlogu ili na drugu kutiju. Kutija dodiruje drugu kutiju ako imaju barem jedno susjedno lice ili rub (ne uključujući vrhove). Koliko drugih kutija dodiruje označenu kutiju sa X?



Select one:

a. 4

b. 6

c. 7

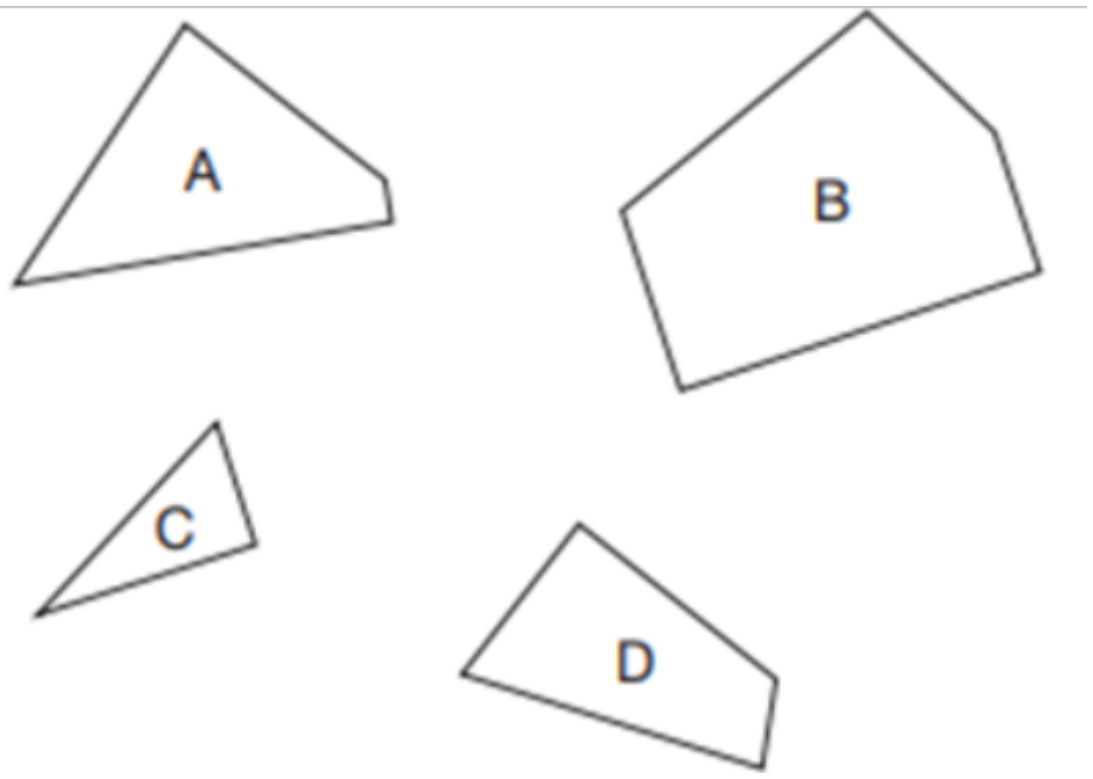
d. 5

Question **15**

Not yet answered

Marked out of 1.00

Which three of the four pieces below can be fitted together to form a perfect square? / Koja tri od četiri dijela zajedno čine kvadrat?



Select one:

- a. CDB
- b. BDA
- c. ACB
- d. DCA

Question **16**

Not yet answered

Marked out of 1.00

If '-' means '+', '+' means '-', '*' means '÷' and '÷' means '*' then which of the following will be the correct equation? / Ako '-' znači '+', '+' znači '-', '*' znači '÷' i '÷' znači '*', koja od navedenih jednačina će biti tačna?

Select one:

- a. 30 * 5 - 4 ÷ 10 + 15 = 31
- b. 10 + 5 - 14 ÷ 10 * 15 = 158
- c. 30 + 5 + 14 - 10 * 15 = 122
- d. 30 - 5 + 14 ÷ 10 * 15 = 162

Question **17**

Not yet answered

Marked out of 1.00

6, 14, 36, 98, ?

Select one:

- a. 275
- b. 220
- c. 274
- d. 276

Question **18**

Not yet answered

Marked out of 1.00

Find the wrong number in the following number series:

Pronađi pogrešan broj u sljedećem nizu:

5, 8, 16, 26, 50, 98, 194

Select one:

- a. 8
- b. 98
- c. 16
- d. 50

Question **19**

Not yet answered

Marked out of 1.00

Peter is in the East of Tom and Tom is in the North of John. Mike is in the South of John then in which direction of Peter is Mike?

Peter je istočno od Toma, a Tom je sjeverno od Johna. Mike je južno od Johna, gdje se nalazi Peter u odnosu na Mike?

Select one:

- a. South-East / Jugoistok
- b. South-West / Jugozapad
- c. South/Jug
- d. North-East/Sjeveroistok

Question **20**

Not yet answered

Marked out of 1.00

2, 6, 12, 20, 30, 42, 56, ?

Select one:

- a. 64
- b. 72
- c. 70
- d. 61

Question **21**

Not yet answered

Marked out of 1.00

What is the term given to the combination of two or more types of information such as text, video, audio, and pictures?

Koji se pojam koristi za kombinaciju dviju ili više vrsta informacija, kao što su tekst, video, audio i slike?

Select one:

- a. ISP
- b. Multimedia
- c. HTML
- d. Modem

Question **22**

Not yet answered

Marked out of 1.00

What is Earth's largest continent by surface size?

Koji je najveći kontinent na Zemlji po površini?

Select one:

- a. Europe/ Europa
- b. Asia / Azija
- c. North America / Sjeverna Amerika
- d. Africa/ Afrika

Question **23**

Not yet answered

Marked out of 1.00

Which of these broadcasters is not from Bosnia and Herzegovina?

Koji od dolje navedenih TV emitera nije iz Bosne i Hercegovine?

Select one:

- a. TV Hayat
- b. Face TV
- c. Prva TV
- d. OBN

Question **24**

Not yet answered

Marked out of 1.00

What is the tallest mountain in the world?

Koja je najviša planina na svijetu?

Select one:

- a. Mont Blanc /Mont Blanc
- b. Mount Kilimanjaro / Kilimandžaro
- c. Aconcagua /Aconcagua
- d. Mount Everest / Mont Everest

Question **25**

Not yet answered

Marked out of 1.00

Many people nowadays write their personal _____ to share their life and experience with others.

Mnogi ljudi danas pišu svoj osobni _____ da bi podijelili svoj život i iskustvo s drugima.

Select one:

- a. Blog/ Blog
- b. Post / Post
- c. Reply / Odgovor
- d. Wall / Zid

Question **26**

Not yet answered

Marked out of 1.00

What is the software program that lets you search and see material on the Internet?
Koji softverski program vam omogućuje pretraživanje i pregled materijala na Internetu?

Select one:

- a. Website
- b. Internet Service Provider
- c. Homepage
- d. Browser

Question **27**

Not yet answered

Marked out of 1.00

Which singer had a hit in 2006 - the song "Rehab"?

Koja je pjevačica imala hit 2006. godine sa pjesmom "Rehab"?

Select one:

- a. Lady Gaga
- b. Adele
- c. Amy Winehouse
- d. Taylor Swift

Question **28**

Not yet answered

Marked out of 1.00

Which actor plays the role of Captain Jack Sparrow in the Pirates of the Caribbean movies?

Koji glumac igra ulogu kapetana Jacka Sparrowa u filmovima Pirati sa Kariba?

Select one:

- a. Johnny Depp
- b. Brad Pitt
- c. Adam Sandler
- d. Leonardo DiCaprio

Question **29**

Not yet answered

Marked out of 1.00

All of these are examples of search engines EXCEPT:

Svi od dolje navedenih su primjeri web pretraživača, OSIM:

Select one:

- a. Yahoo
- b. Bing
- c. Twitter
- d. Google

Question **30**

Not yet answered

Marked out of 1.00

What is the only major city located on two continents?

Koji je jedini veliki grad smješten na dva kontinenta?

Select one:

- a. Istanbul / Istanbul
- b. Rome / Rim
- c. Mexico City/ Mexico City
- d. New Delhi / New Delhi

Question **31**

Not yet answered

Marked out of 1.00

A website that lets anyone add, edit, or delete pages of content is called a:

Web stranica koja dopušta bilo kome dodavanje, uređivanje ili brisanje stranica sadržaja naziva se:

Select one:

- a. Wiki / Wiki
- b. Lurker site/ Lurker stranica
- c. Social Network / Društvena mreža
- d. Usenet / Usenet

Question **32**

Not yet answered

Marked out of 1.00

What is the name of the bald commander of the Enterprise in the science fiction television series Star Trek?/ Kako se zove ćelavi zapovjednik *Enterprisea* u naučnofantastičnoj televizijskoj seriji Zvijezdane staze?

Select one:

- a. Worf
- b. Riker
- c. Picard
- d. La Forge

Question **33**

Not yet answered

Marked out of 1.00

What is the most famous university in France?

Koji je najpoznatiji univerzitet u Francuskoj?

Select one:

- a. École Polytechnique /École Polytechnique
- b. Sorbonne University / Univerzitet Sorbonne
- c. Grenoble Alpes University/ Grenoble Alpes univerzitet
- d. University of Paris/ Univerzitet u Parizu

Question **34**

Not yet answered

Marked out of 1.00

What is the smallest independent country on Earth?

Koja je najmanja nezavisna država na Zemlji?

Select one:

- a. Vatican City / Vatican City
- b. Nauru/ Nauru
- c. Monaco / Monako
- d. Grenada / Grenada

Question **35**

Not yet answered

Marked out of 1.00

Which Swedish industrialist donated money for prizes to be won every year for peace, science medicine, etc?

Koji je švedski industrijalac donirao novac za nagrade koje se svake godine dodjeljuju za mir, fiziku, hemiju, medicinu itd?

Select one:

- a. Nobel
- b. Larssen
- c. Borg
- d. Palme

Question **36**

Not yet answered

Marked out of 1.00

What was the former name of New York?

Kako se ranije zvao New York?

Select one:

- a. New Paris
- b. New Amsterdam
- c. New London
- d. New Berlin

Question **37**

Not yet answered

Marked out of 1.00

The second session of the State Anti-fascist Council for the National Liberation of Bosnia and Herzegovina (ZAVNOBiH) was held on June 30, 1944 in:

Drugo zasjedanje Zemaljskog antifašističkog vijeća narodnog oslobođenja Bosne i Hercegovine (ZAVNOBiH) održano je 30. juna 1944. u:

Select one:

- a. Mrkonjić Grad
- b. Sanski Most
- c. Sarajevo
- d. Banja Luka

Question **38**

Not yet answered

Marked out of 1.00

What is the name of the ancient South American civilization that was centered in Peru?

Kako se zove drevna južnoamerička civilizacija koja je bila u središtu Perua?

Select one:

- a. Vikings/ Vikinzi
- b. Romans/ Rimljani
- c. Aztecs/ Asteci
- d. Incas / Inke

Question **39**

Not yet answered

Marked out of 1.00

Who did paint the famous painting Guernica?

Ko je naslikao čuvenu sliku "Guernica"?

Select one:

- a. Picasso
- b. Monet
- c. Van Gogh
- d. Renoir

Question **40**

Not yet answered

Marked out of 1.00

Twitter is an example of what type of service?

Koje vrste online servisa je primjer Twitter?

Select one:

- a. Gaming/ Video igrice
- b. Blogging /Blog
- c. Microblogging/ Mikroblog
- d. Programming /Programiranje

Question **41**

Not yet answered

Marked out of 1.00

Which function the media is performing when exposing to the public the corrupt practices of the government and private sectors?

Koju funkciju vrše mediji kada izlažu javnosti koruptivne postupke vladinog i privatnog sektora?

Select one:

- a. Media as an advocate/ Mediji kao zagovarači
- b. Media as a watchdog/ Mediji kao čuvari (demokracije)
- c. Media as a channel /Mediji kao kanal
- d. Media as a resource center / Mediji kao resursni centar

Question **42**

Not yet answered

Marked out of 1.00

What used to be the currency of Greece?

Koja je ranije bila zvanična valuta u Grčkoj?

Select one:

- a. Peseta / Peseta
- b. Lira / Lira
- c. Drachma / Drahma
- d. Rupee / Rupija

Question **43**

Not yet answered

Marked out of 1.00

Who founded Google?

Ko je osnovao kompaniju Google?

Select one:

- a. Larry Page and Sergei Brin
- b. Sergei Zuckerberg and Larry King
- c. Louis Page and Sergei Rockmonanov
- d. Mark Zuckerberg and Steve Balmer

Question **44**

Not yet answered

Marked out of 1.00

Which Bosnian writer wrote the book Eternee (Vječnik)?

Koji je bosanski pisac napisao knjigu Vječnik?

Select one:

- a. Ozren Kebo
- b. Nedžad Ibrišimović
- c. Meša Selimović
- d. Dario Džamonja

Question **45**

Not yet answered

Marked out of 1.00

Which Italian film director is considered as the father of the spaghetti western?

Koji italijanski filmski reditelj se smatra “ocem špageti vesterna”?

Select one:

- a. Sergio Leone
- b. Federico Fellini
- c. Paolo Sorrentino
- d. Franco Zeffirelli

Question **46**

Not yet answered

Marked out of 1.00

All of the following are part of the 5 W's and H journalistic questions EXCEPT:

Sve dolje navedeno dio je novinarskih pitanja poznatih kao “5 W i H”, OSIM:

Select one:

- a. Who / Ko
- b. What / Šta
- c. Will / Da li će
- d. How / Kako

Question **47**

Not yet answered

Marked out of 1.00

What is the name of the first Harry Potter book?

Kako se zove prva knjiga o Harry Potter-u?

Select one:

- a. The Goblet of Fire / Vatreni pehar
- b. The Philosopher's Stone / Kamen mudraca
- c. The Chamber of Secrets / Odaja tajni
- d. The Half-Blood Prince /Princ miješane krvi/ Polukrvni princ

Question **48**

Not yet answered

Marked out of 1.00

What are the three primary colors?

Koje su tri osnovne boje?

Select one:

- a. Yellow, blue and pink /Žuta, plava i ružičasta
- b. Red, white and black/ Crvena, bijela i crna
- c. Red, green and purple /Crvena, zelena i ljubičasta
- d. Red, yellow and blue/ Crvena, žuta i plava

Question **49**

Not yet answered

Marked out of 1.00

In what year was the Berlin wall built?

Koje godine je izgrađen Berlinski zid?

Select one:

- a. 1945
- b. 1961
- c. 1951
- d. 1948

Question **50**

Not yet answered

Marked out of 1.00

What year did Princess Diana die?

Koje godine je poginula princeza Dajana?

Select one:

- a. 1997
- b. 2007
- c. 1987
- d. 2008

Department of Architecture
Department of Civil Engineering

Question **1**

Not yet answered

Marked out of 1.00

SCD, TEF, UGH, ?, WKL

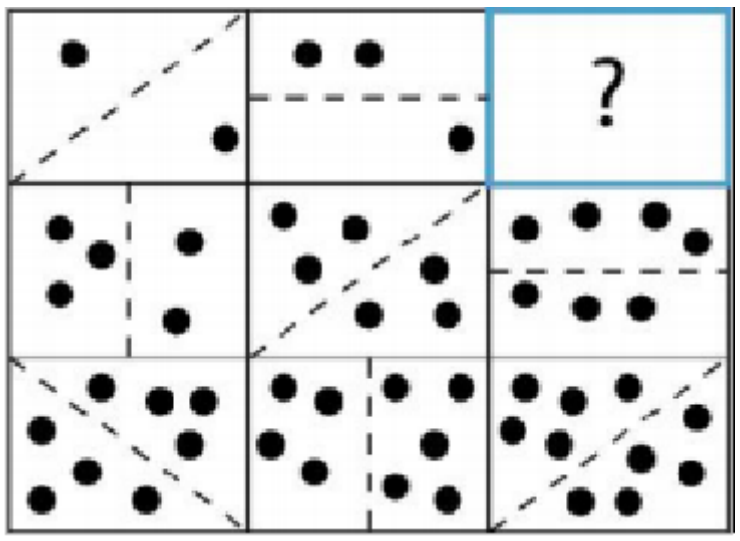
Select one:

- a. IJT
- b. UJI
- c. CMN
- d. VIJ

Question **2**

Not yet answered

Marked out of 1.00



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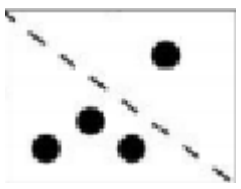
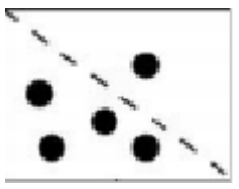
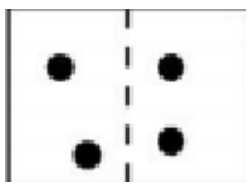
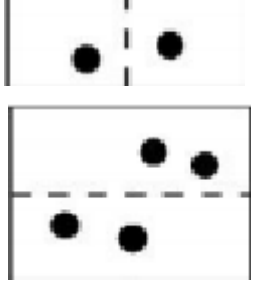
- a. 
- b. 
- c. 
- d. 

Question **3**

Not yet answered

Marked out of 1.00

G2X, J4V, M8T, ?, S32P

Select one:

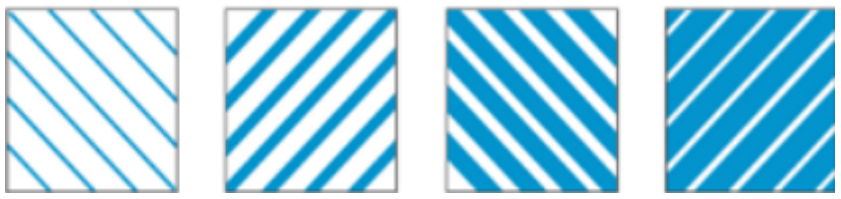
- a. Q16R
- b. P16R
- c. N64S
- d. P8S

Question **4**

Not yet answered

Marked out of 1.00

Logic



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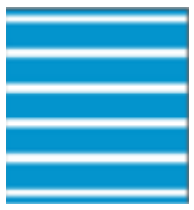
a. 

b.

c.

d.

Question **5**

Not yet answered

Marked out of 1.00

80, 10, 70, 15, 60, ...

Select one:

a. 20

b. 30

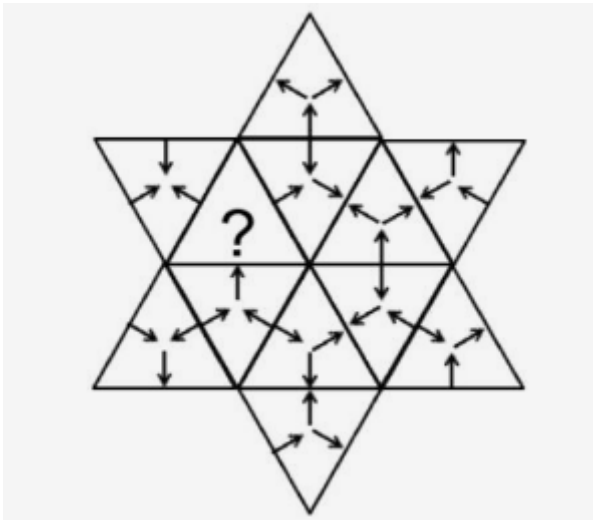
c. 25

d. 50

Question **6**

Not yet answered

Marked out of 1.00



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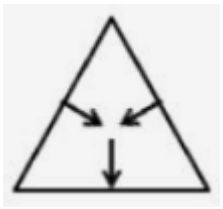
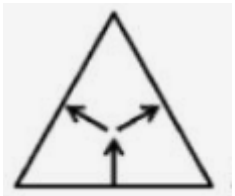
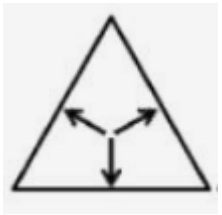
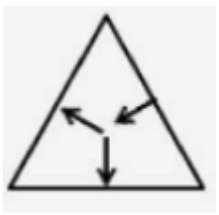
a. 

b. 

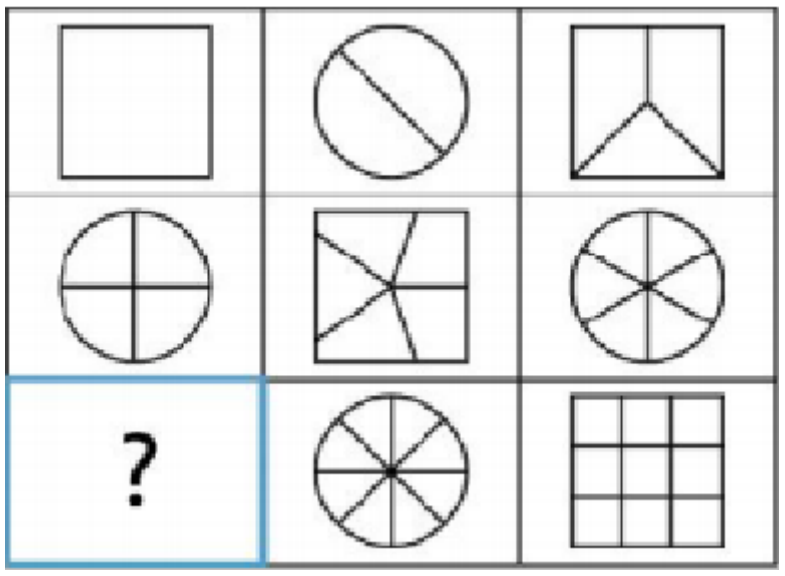
c. 

d. 

Question **7**

Not yet answered

Marked out of 1.00



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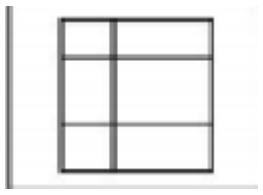
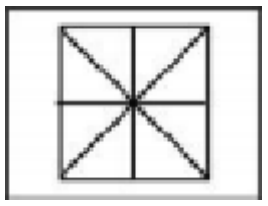
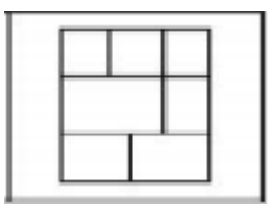
a. 

b. 

c. 

d.

Question **8**

Not yet answered

Marked out of 1.00

If in a certain language, NOIDA is coded as OPJEB, how is DELHI coded in that language?

Ako se u nekom jeziku, NOIDA prevodi kao OPJEB, kako se DELHI prevodi u tom jeziku?

Select one:

a. FGNJK

b. EFMIJ

c. IHLED

d. CDKGH

Question **9**

Not yet answered

Marked out of 1.00

You have 98 BAM and the coffee costs 3 BAM. How many coffees can you buy?

Imate 98 KM, a šoljica kafe košta 3 KM. Koliko šoljica kafe možete kupiti?

Select one:

a. 33

b. 30

c. 28

d. 32

Question **10**

Not yet answered

Marked out of 1.00

9 | 2 | 7 | -5 | 12 | ? | 29

Select one:

- a. 3
- b. 13
- c. -17
- d. -9

Question **11**

Not yet answered

Marked out of 1.00

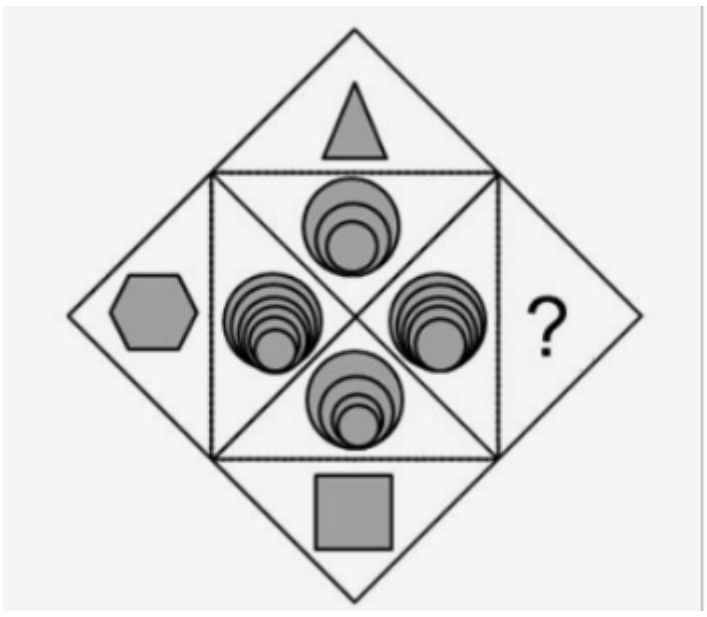
Select one:

- a. 3
- b. 0
- c. 1
- d. -4

Question **12**

Not yet answered

Marked out of 1.00



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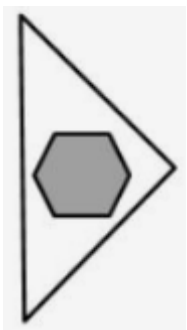
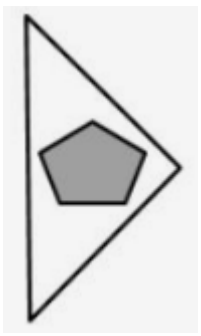
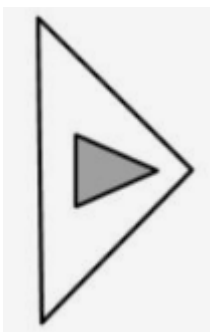
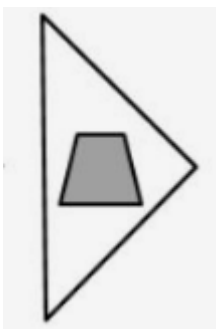
a. 

b. 

c. 

d. 

Question **13**

Not yet answered

Marked out of 1.00

15 | 20 | 28 | 18 | 23 | 28 | 21 | 26 | 28 | ? | ?

Select one:

a. 24, 29

b. 23, 27

c. 26, 31

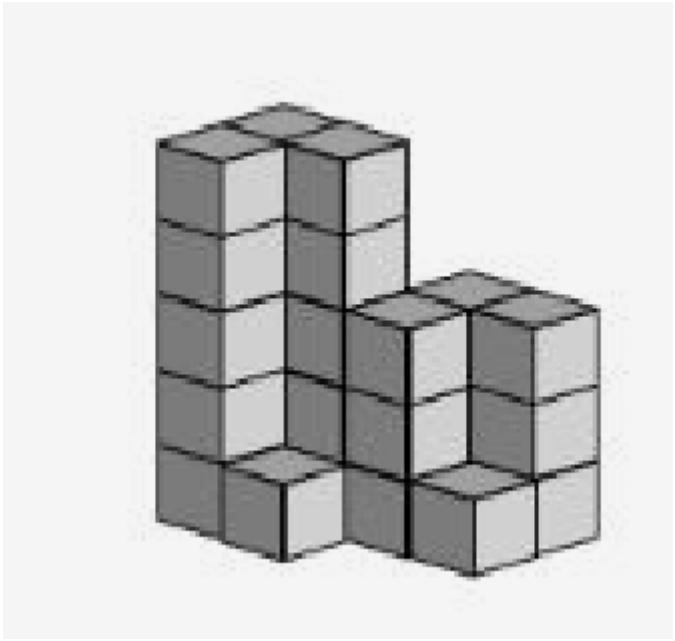
d. 36, 25

Question **14**

Not yet answered

Marked out of 1.00

1. How many blocks make up the shape below? / Koliko kocki sačinjava oblik prikazan ispod?



Select one:

- a. 18
- b. 27
- c. 25
- d. 26

Question **15**

Not yet answered

Marked out of 1.00

If '-' means '+', '+' means '-', '*' means '÷' and '÷' means '*' then which of the following will be the correct equation? / Ako '-' znači '+', '+' znači '-', '*' znači '÷' i '÷' znači '*', koja od navedenih jednačina će biti tačna?

Select one:

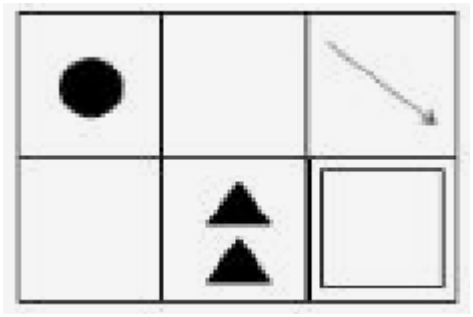
- a. 30 * 5 - 4 ÷ 10 + 15 = 31
- b. 10 + 5 - 14 ÷ 10 * 15 = 158
- c. 30 + 5 + 14 - 10 * 15 = 122
- d. 30 - 5 + 14 ÷ 10 * 15 = 162

Question **16**

Not yet answered

Marked out of 1.00

Which answer shows a reflection of the image below? / Koji odgovor prikazuje refleksiju slike prikazane ispod?



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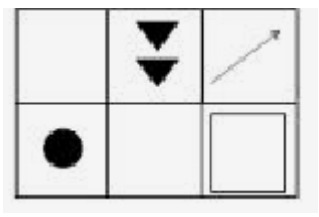
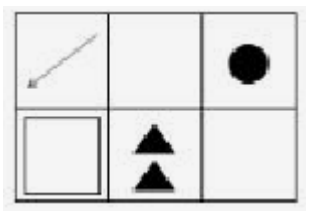
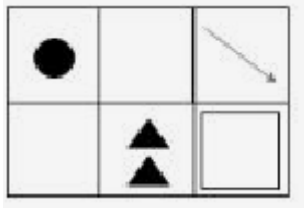
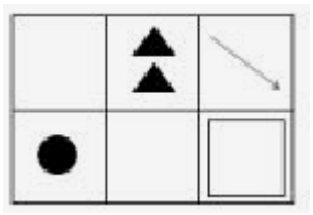
a. 

b. 

c. 

d. 

Question **17**

Not yet answered

Marked out of 1.00

2, 6, 12, 20, 30, 42, 56, ?

Select one:

a. 72

b. 64

c. 61

d. 70

Question **18**

Not yet answered

Marked out of 1.00

Select three figures out of the following five figures which when fitted into each other would form a square.

Odaberi tri figure od ponuđenih pet koje, kada se spoje, formiraju kvadrat.

Select one:

a. 1, 2, 4

b. 5, 3, 1

c. 1, 2, 5

d. 2, 3, 4

Question **19**

Not yet answered

Marked out of 1.00

Find the wrong number in the following number series:

Pronađi pogrešan broj u sljedećem nizu:

5, 8, 16, 26, 50, 98, 194

Select one:

- a. 98
- b. 50
- c. 8
- d. 16

Question **20**

Not yet answered

Marked out of 1.00

6, 14, 36, 98, ?

Select one:

- a. 276
- b. 275
- c. 274
- d. 220

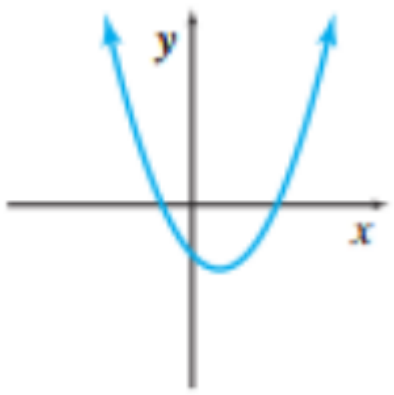
Question **21**

Not yet answered

Marked out of 1.00

The minimum value of the graph could only be:

Minimalna vrijednost grafa može jedino biti:



Select one:

- a. (-1, -2)
- b. (1,-2)
- c. (-2,-2)
- d. (3,-2)

Question **22**

Not yet answered

Marked out of 1.00

Five different books (A, B, C, D, and E) are to be arranged on a shelf. Books C and D are to be arranged first and second starting from the left side of the shelf. How many arrangement options for the rest of books is possible?

Pet različitih knjiga (A, B, C, D i E) treba rasporediti na policu. Knjige C i D treba da se rasporede kao prva i druga počevši s lijeve strane police. Koliko je mogućih opcija za raspoređivanje ostalih knjiga?

Select one:

- a. 3!
- b. 3
- c. 5!
- d. 2!

Question **23**

Not yet answered

Marked out of 1.00

Which is not the same as $8^{4/5}$?

Koji od navedenih nije isto što i $8^{4/5}$?

Select one:

- a. $4(4)^{1/5}$
- b. $2(128)^{1/5}$
- c. $(8^{1/5})^4$
- d. $(2\sqrt[5]{4})^4$

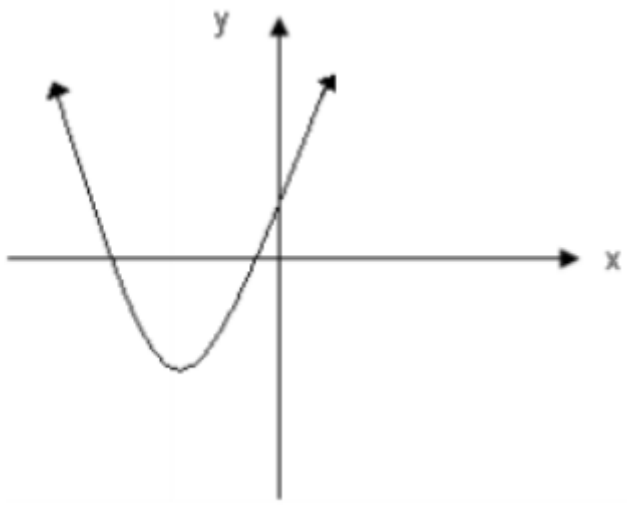
Question **24**

Not yet answered

Marked out of 1.00

The minimum value of the graph could only be:

Minimalna vrijednost grafa može jedino biti:



Select one:

- a. (-2,5)
- b. (-3,-3)
- c. (-2, 4)
- d. (4,-1)

Question **25**

Not yet answered

Marked out of 1.00

$$\frac{(2xy^2)^3}{(x^2y)^2} =$$

Select one:

- a. $6xy^4$
- b. $\frac{6y^3}{3x}$
- c. $8x^7y^8$
- d. $\frac{8y^4}{x}$

Question **26**

Not yet answered

Marked out of 1.00

Which is not the same as $5^{2/6}$?

Koji izraz od dolje navedenih nije isto što i $5^{2/6}$?

Select one:

- a. $(5^{1/6})^2$
- b. $(5^{1/2})^6$
- c. $(\sqrt[6]{5})^2$
- d. $(5^2)^{1/6}$

Question **27**

Not yet answered

Marked out of 1.00

$$\frac{3x^{-2}y^2}{6y^{-1}x^3} =$$

Select one:

- a. $\frac{y}{3x}$
- b. $\frac{2y^3}{x}$
- c. $\frac{y^3}{2x^5}$
- d. $\frac{y}{2x}$

Question **28**

Not yet answered

Marked out of 1.00

A number n is increased by 4. If the square root of that result equals $\frac{3}{2}$, what is the value of n?

Broj *n* je uvećan za 4. Ako je kvadratni korijen tog broja jednak $\frac{3}{2}$, kolika je vrijednost *n*?

Select one:

- a. $\left(\frac{5}{2}\right)^2$
- b. $\frac{12}{8}$
- c. 6
- d. $\frac{12}{2}$

Question **29**

Not yet answered

Marked out of 1.00

The perimeter of a rectangle is 28 m, whereas its area is 48 m2. What is the length of its diagonal?

Obim pravougla je 28 m, a njegova površina je 48 m^2. Kolika je dužina njegove dijagonale?

Select one:

- a. 12 m
- b. 10 m
- c. 5 m
- d. 15 m

Question **30**

Not yet answered

Marked out of 1.00

Evaluate $\frac{6n^2+12n}{3n^2+10\,000}$

Odredite $\frac{6n^2+12n}{3n^2+10\,000}$

Select one:

- a. 1
- b. 2
- c. 3
- d. 0

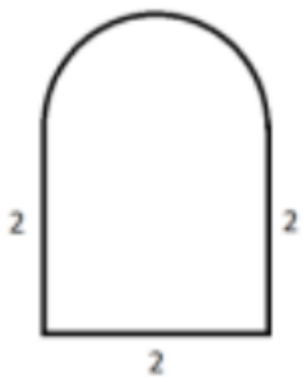
Question **31**

Not yet answered

Marked out of 1.00

Find the total area of the given shape, a square with side length 2 topped by a semi-circle.

Odrediti površinu datog oblika, koji se sastoji od kvadrata sa stranicama dužine 2 na čijem vrhu se nalazi polukrug.



Select one:

- a. 4+π/2
- b. 4+4π
- c. 4+π
- d. 6+π

Question **32**

Not yet answered

Marked out of 1.00

For x greater than or equal to zero or less than or equal to 2π, Sin x and Cos x are both decreasing on the intervals:

Za x veći ili jednaki nuli, ili manji ili jednak 2π, Sin x i Cos x se smanjuju na intervale:

Select one:

- a. (π , 3π/2)
- b. (0 , π/2)
- c. (3π/2 , 2π)
- d. (π/2 , π)

Question **33**

Not yet answered

Marked out of 1.00

If $y = \frac{100^{\log\ log\ x}}{x^2}$, for $x > 0$, then

Ako je $y = \frac{100^{\log\ log\ x}}{x^2}$, za $x > 0$, onda

Select one:

- a. y varies directly with x / y varira direktno sa x
- b. y varies as the square of x / y varira kao kvadrat od x
- c. y varies inversely with x / y varira obrnuto sa x
- d. y is independent of x / y je nezavisno od x

Question **34**

Not yet answered

Marked out of 1.00

A school committee consists of 2 teachers and 4 students. The number of different committees that can be formed from 5 teachers and 10 students is ....

Školski odbor sastoji se od 2 učitelja i 4 učenika. Ako imamo 5 nastavnika i 10 učenika, moguće je formirati ... različitih kombinacija odbora.

Select one:

- a. 2100
- b. 8
- c. 12
- d. 5

Question **35**

Not yet answered

Marked out of 1.00

The 100-th term in the sequence of numbers 0,3,8,15,24... is

100-ti član niza brojeva 0,3,8,15,24... je

Select one:

- a. 1000
- b. 9999
- c. 10000
- d. 99999

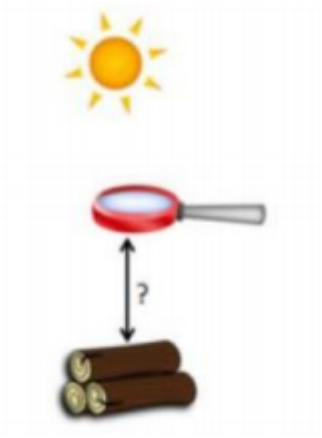
Question **36**

Not yet answered

Marked out of 1.00

A group of people are trying to start a fire while camping by using the sunlight and a magnifying glass. While holding the magnifying glass 20 cm away from the wood, it starts smoking. How far from the wood should they hold the magnifier in order to start the fire?

Skupina ljudi pokušava da zapali vatru tokom kampovanja uz pomoć sunčeve svjetlosti i lupe. Dok drže lupu 20 cm udaljenu od drveta, ono počinje da se dimi. Koliko daleko od drveta treba držati lupu da bi se zapalila vatra?



Select one:

- a. 10 cm
- b. 15 cm
- c. 30 cm
- d. 20 cm

Question **37**

Not yet answered

Marked out of 1.00

A person is doing a work on an object if:

Osoba vrši posao na nekom predmetu ako:

Select one:

- a. He is raising a stop sign that weighs 15 N / Podiže znak zaustavljanja koji teži 15 N
- b. He is holding a box 0.5 m off the floor / Drži kutiju na 0,5 m od poda
- c. He is exerting 500 N force on a rope attached to a wall / Izvodi silu od 500 N na konopcu pričvršćenom na zid
- d. He is walking while wearing a backpack that weighs 10 kg / Hoda dok nosi ruksak težak 10 kg

Question **38**

Not yet answered

Marked out of 1.00

Your weight is:

Vaša težina predstavlja:

Select one:

- a. A property of mechanical equilibrium / Svojstvo mehaničke ravnoteže
- b. The gravitational attraction between you and the Earth / Gravitaciona privlačnost između vas i Zemlje
- c. Your mass / Vaša masa
- d. All of these / Sve navedeno

Question **39**

Not yet answered

Marked out of 1.00

A sack of vegetables weighing 500 N falls from a helicopter. As the velocity of fall increases, the air resistance also increases. When the air resistance equals 500 N, the sack's acceleration in meters per second square is:

Vreća povrća težine 500 N pada iz helikoptera. Kako se brzina pada povećava, povećava se i otpor zraka. Kad je otpor zraka jednak 500 N, ubrzanje vreće u metrima po sekundi na kvadrat je:

Select one:

- a. 0
- b. 4,90
- c. 9,81
- d. 19,62

Question **40**

Not yet answered

Marked out of 1.00

Assuming that 1 kg = 1000 g, a 5 kg object has less inertia than an object with the mass of

Pod pretpostavkom da je 1 kg=1000 g, onda tijelo teško 5kg ima manju inerciju nego tijelo čija masa je

Select one:

- a. 2 kg
- b. 2500 g
- c. 6000 g
- d. 4 kg

Question **41**

Not yet answered

Marked out of 1.00

A train runs at the speed of 72 km/h and crosses a 250 m long platform in 26 seconds. What is the length of the train?

Voz vozi brzinom od 72 km / h i pređe platformu dugu 250 m za 26 sekundi. Kolika je dužina voza?

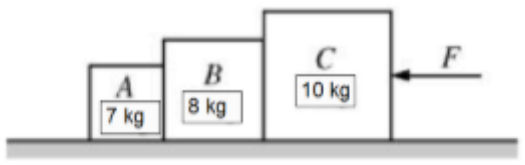
Select one:

- a. 270
- b. 230
- c. 250
- d. 260

Question **42**

Not yet answered

Marked out of 1.00



Three blocks, A, B, and C, of masses 7, 8, and 10 kg, respectively, are initially at rest on a frictionless surface. What force F has to be applied on block C to accelerate the three blocks at 2 m/s^2?

Tri bloka, A, B, i C, mase 7, 8 i 10 kg, nalaze se u stanju mirovanja na površini bez trenja. Kolika mora biti sila F primijenjena na blok C, da bi se tri bloka ubrzala na 2 m/ s^2?

Select one:

- a. 25 N
- b. 100 N
- c. 98,1 N
- d. 50 N

Question **43**

Not yet answered

Marked out of 1.00

A ramp is helping in making the lifting of heavy objects easier due because:

Rampa vam pomaže u olakšanju podizanja teških predmeta zbog:

Select one:

- a. Less force is needed to move the object over a longer distance / Za pomicanje predmeta na veću udaljenost potrebno je manje sile
- b. The object is moved over a shorter distance / Predmet se premješta na kraće rastojanje
- c. The ramp increases the amount of work to be done / Rampa povećava količinu posla koji treba obaviti
- d. More force is needed to move the object over a longer distance / Za pomicanje predmeta na veću udaljenost potrebno je više sile

Question **44**

Not yet answered

Marked out of 1.00

A book weight is 9.81 N. If the acceleration of gravity is 9.81 m/s^2, what is the mass of the book in kilograms?

Težina knjige iznosi 9,81 N. Ako je ubrzanje zemljine sile teže 9,81 m/ s^2, kolika je masa knjige u kilogramima?

Select one:

- a. 5 kg
- b. 1 kg
- c. 10 kg
- d. 0.1 kg

Question **45**

Not yet answered

Marked out of 1.00

The two measurements necessary for calculating average speed are:

Za izračunavanje prosječne brzine potrebna su dvije mjerne komponente:

Select one:

- a. Distance and time / Udaljenost i vrijeme
- b. Acceleration and time / Ubrzanje i vrijeme
- c. Velocity and time / Brzina i vrijeme
- d. Distance and acceleration / Udaljenost i ubrzanje

Question **46**

Not yet answered

Marked out of 1.00

As a soccer ball flies after being hit, which of the following types of energy does it have

Koju vrstu energije ima fudbalska lopta koja leti nakon što je šutne igrač?

Select one:

- a. Mechanical energy / Mehanička energija
- b. Thermal energy / Toplotna energija
- c. Kinetic energy / Kinetička energija
- d. Potential energy / Potencijalna energija

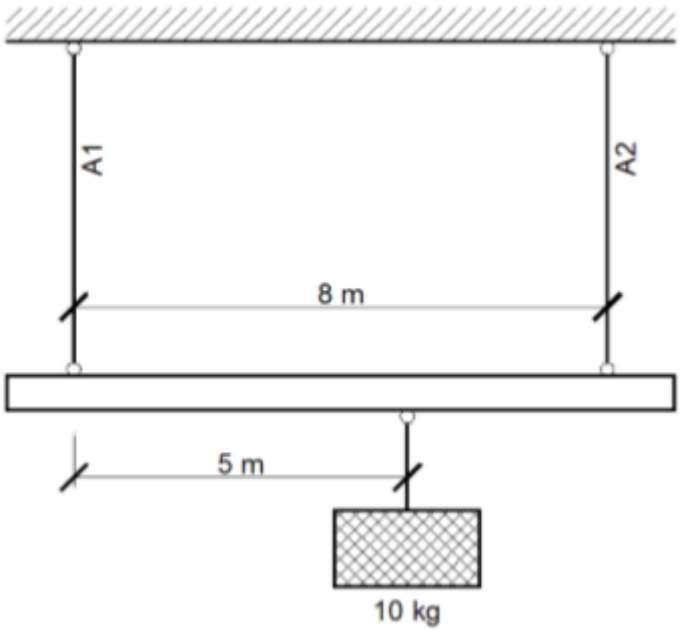
Question **47**

Not yet answered

Marked out of 1.00

A load of 10 kg is hanged on a beam that is attached to the ceiling with two rods of circular cross section (A1 and A2). The distance between rods A1 and A2 is 8m, while the load is hanged 5m from the rod A1. How much should the area of A2 be compared to the area of A1, in order to have both of rods stressed equally? (A2 = ... A1)

Teret od 10 kg obješen je na gredu koja je pričvršćena na strop s dva štapa kružnog presjeka (A1 i A2). Udaljenost između štapova A1 i A2 je 8m, dok je opterećenje obješeno 5m od štapa A1. Kolika treba biti površina A2 u odnosu na površinu A1, kako bi oba štapa imala jednako naprezanje? (A2 = ... A1)



Select one:

- a. 3/8
- b. 5/8
- c. 3/5
- d. 5/3

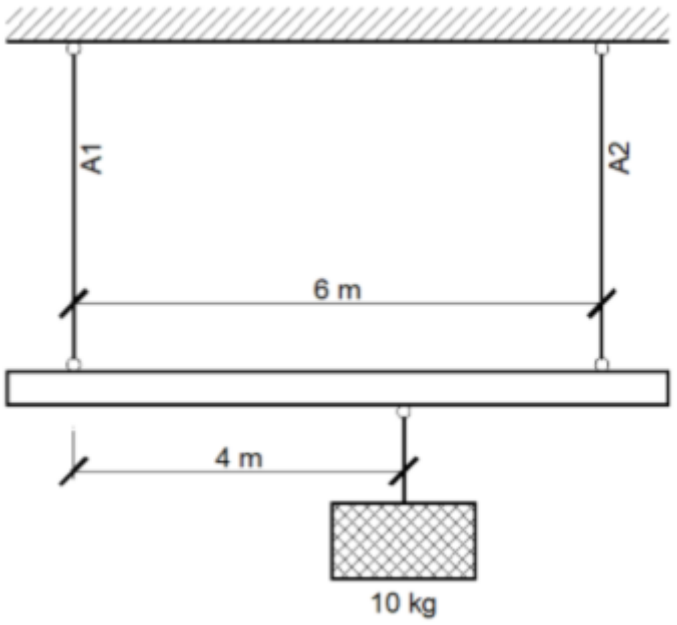
Question **48**

Not yet answered

Marked out of 1.00

A load of 10 kg is hanged on a beam that is attached to the ceiling with two rods of circular cross section (A1 and A2). The distance between rods A1 and A2 is 6m, while the load is hanged 4m from the rod A1. How much should the area of A2 be compared to the area of A1, in order to have both of rods stressed equally? (A2 = ... A1)

Teret od 10 kg obješen je na gredu koja je pričvršćena na strop s dva štapa kružnog presjeka (A1 i A2). Udaljenost između štapova A1 i A2 je 6m, dok je opterećenje obješeno 4m od štapa A1. Kolika treba biti površina A2 u odnosu na površinu A1, kako bi oba štapa imala jednako naprezanje? (A2 = ... A1)



Select one:

- a. 4/2
- b. 6/4
- c. 2/4
- d. 4/6

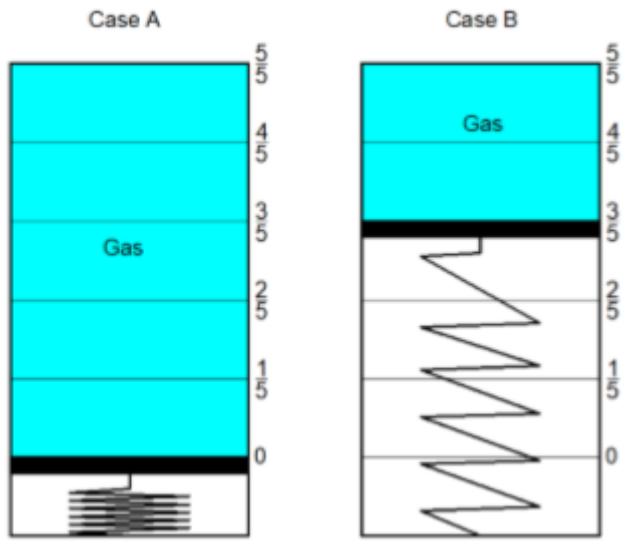
Question **49**

Not yet answered

Marked out of 1.00

A sealed tight cylinder is completely filled with gas. When the piston moves from its position in a case A to the new position in a case B, the pressure in the gas part of the cylinder is ...

Zaptiveni uski cilindar je u potpunosti ispunjen gasom. Kada se klip pomakne iz svog položaja u slučaju A u novi položaj u slučaju B, pritisak u plinskom dijelu cilindra je ...



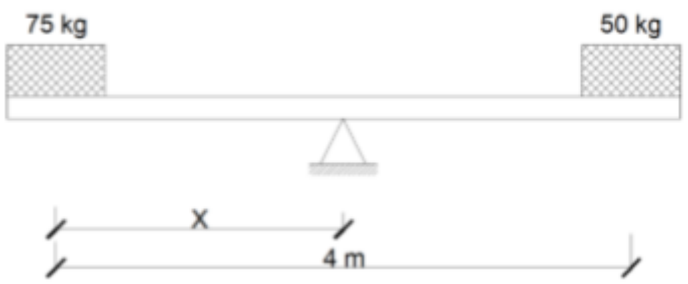
Select one:

- a. 5/2 times bigger than the pressure in Case A / 5/2 puta veći od pritiska u slučaju A
- b. 5 times bigger than the pressure in Case A / 5 puta veći od pritiska u slučaju A
- c. 5/3 times bigger than the pressure in Case A / 5/3 puta veći od pritiska u slučaju A
- d. 2/5 of the pressure in Case A / 2/5 pritiska u slučaju A

Question **50**

Not yet answered

Marked out of 1.00



In order to achieve lever balance, the value "X" should equal ...

Da bi se postigla ravnoteža poluge, vrijednost "X" treba biti ...

Select one:

- a. 2,0 m
- b. 1,6 m
- c. 1,5 m
- d. 1,8 m

Additional Questions

Question **1**

Not yet answered

Marked out of 1.00

ADF, CFG, EHH, ?, ILJ

Select one:

- a. GIJ
- b. HIJ
- c. GJI
- d. FII

Question **2**

Not yet answered

Marked out of 1.00

Z2 | Y4 | X8 | W16 | ?

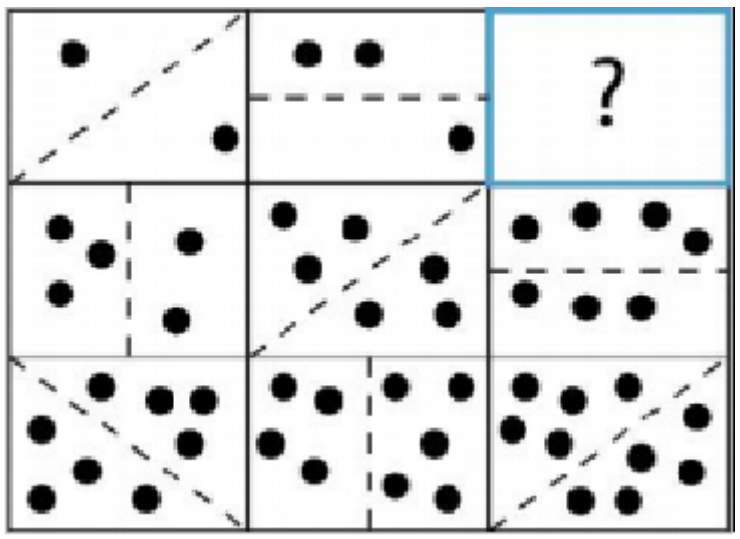
Select one:

- a. V24
- b. V32
- c. S24
- d. S32

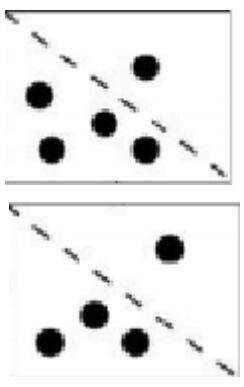
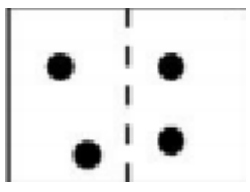
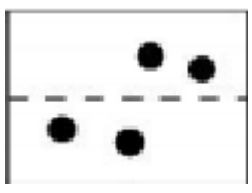
Question **3**

Not yet answered

Marked out of 1.00



Select one:

- a. 
- b.
- c. 
- d. 

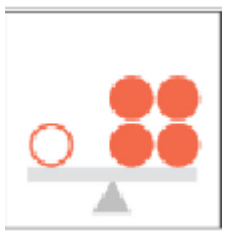
Question **4**

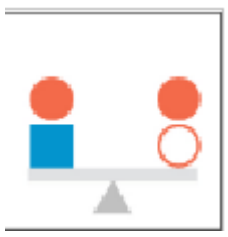
Not yet answered

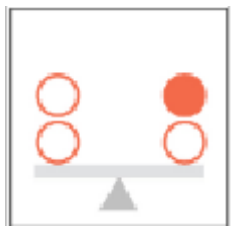
Marked out of 1.00

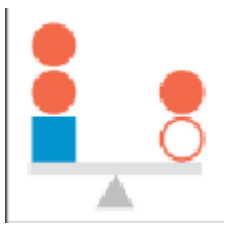
Logic

Select one:

a. 

b. 

c. 

d. 

Question **5**

Not yet answered

Marked out of 1.00

ZCF, YBE, XAD, WZC, _____

Select one:

a. VUY

b. VYB

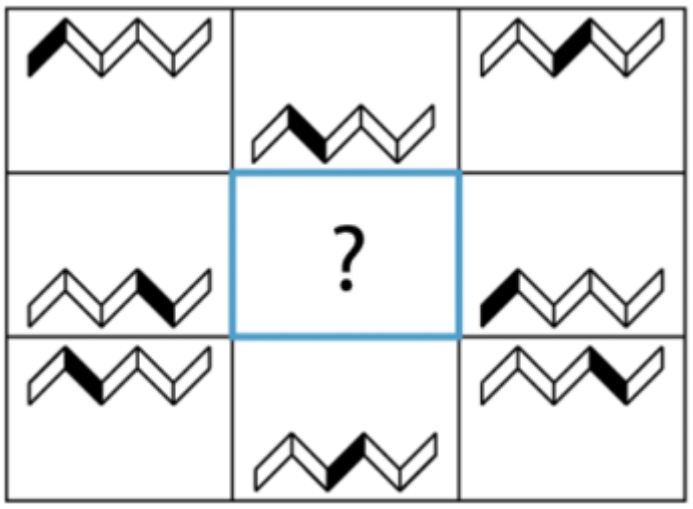
c. VYU

d. YUV

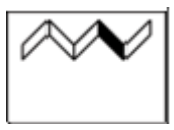
Question **6**

Not yet answered

Marked out of 1.00



Select one:

a. 

b.

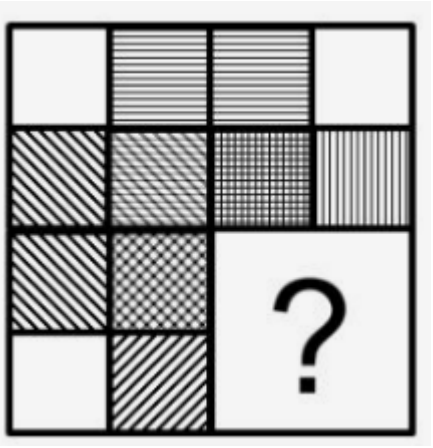
c.

d.

Question **7**

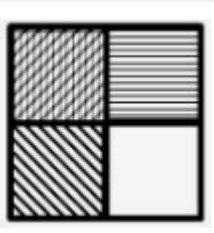
Not yet answered

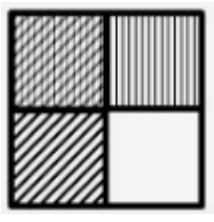
Marked out of 1.00

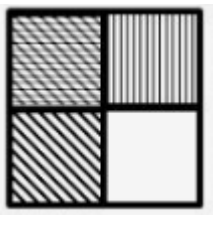


Select one:

a.

b. 

c. 

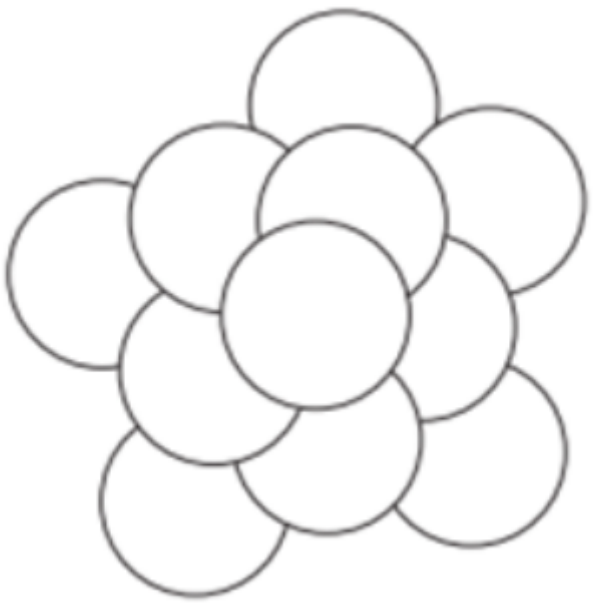
d. 

Question **8**

Not yet answered

Marked out of 1.00

How many circles appears below? / Koliko krugova ima na slici?



Select one:

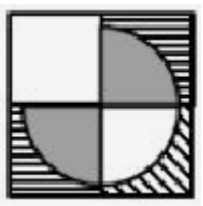
- a. 10
- b. 1
- c. 11
- d. 12

Question **9**

Not yet answered

Marked out of 1.00

Select one:

- a.
- b. 
- c.
- d.

Question **10**

Not yet answered

Marked out of 1.00

Select one:

- a. -4
- b. 0
- c. 3
- d. 1

Question **11**

Not yet answered

Marked out of 1.00

6 gardeners plant 6 trees in 6 minutes. How many gardeners will be needed to plant 60 trees in 60 minutes?

6 vrtlara posadi 6 drveća u 6 minuta. Koliko vrtlara je potrebno da posade 60 drveća u 60 minuta?

Select one:

- a. 6 vrtlara
- b. 15 vrtlara
- c. 60 vrtlara
- d. 10 vrtlara

Question **12**

Not yet answered

Marked out of 1.00

9 | 2 | 7 | -5 | 12 | ? | 29

Select one:

- a. 3
- b. 13
- c. -9
- d. -17

Question **13**

Not yet answered

Marked out of 1.00

11, 14, 20, 29, ?, 56

Select one:

- a. 51
- b. 40
- c. 41
- d. 31

Question **14**

Not yet answered

Marked out of 1.00

15 | 20 | 28 | 18 | 23 | 28 | 21 | 26 | 28 | ? | ?

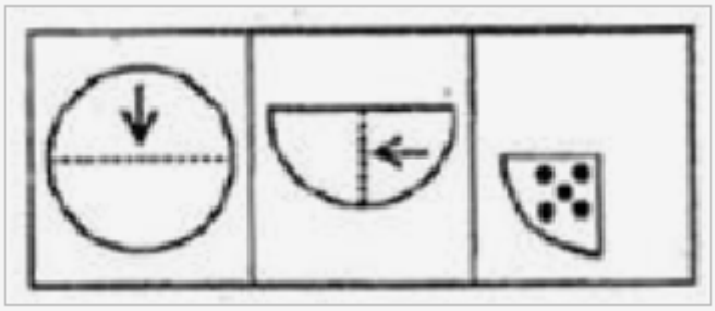
Select one:

- a. 26, 31
- b. 24, 29
- c. 23, 27
- d. 36, 25

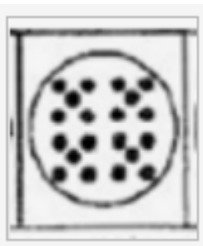
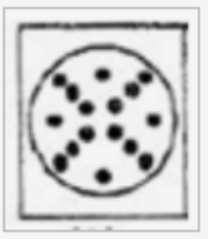
Question **15**

Not yet answered

Marked out of 1.00



Select one:

- a.
- b. 
- c. 
- d.

Question **16**

Not yet answered

Marked out of 1.00

2, 6, 12, 20, 30, 42, 56, ?

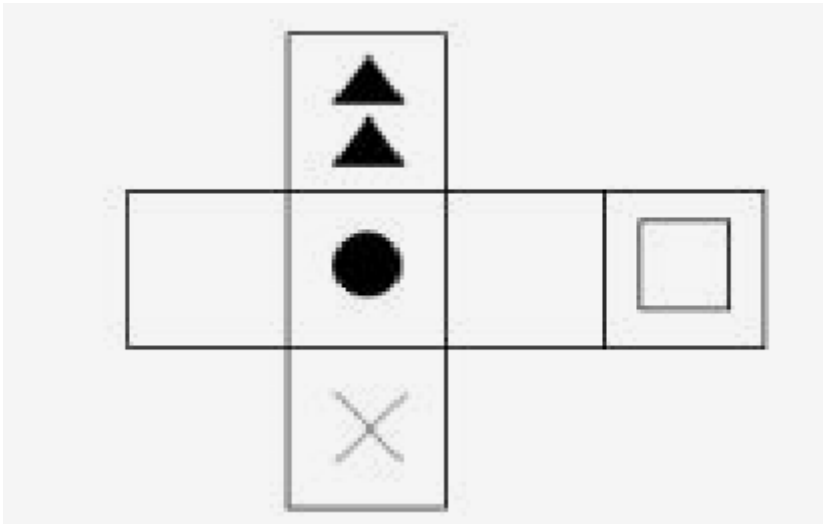
Select one:

- a. 72
- b. 61
- c. 70
- d. 64

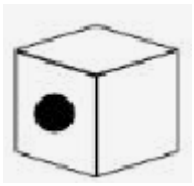
Question **17**

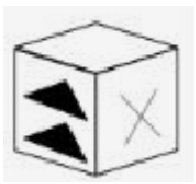
Not yet answered

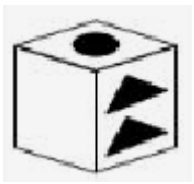
Marked out of 1.00

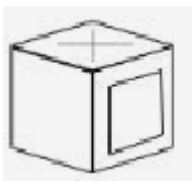


Select one:

a. 

b. 

c. 

d. 

Question **18**

Not yet answered

Marked out of 1.00

6, 14, 36, 98, ?

Select one:

a. 276

b. 274

c. 220

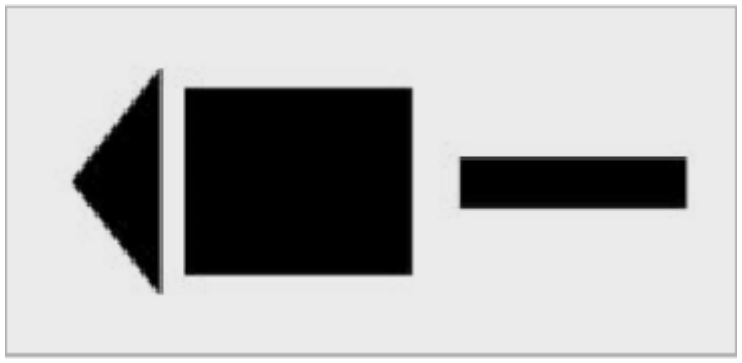
d. 275

Question **19**

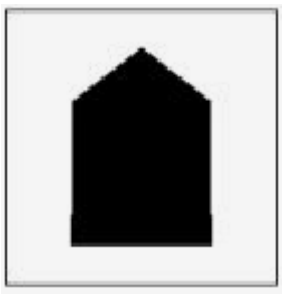
Not yet answered

Marked out of 1.00

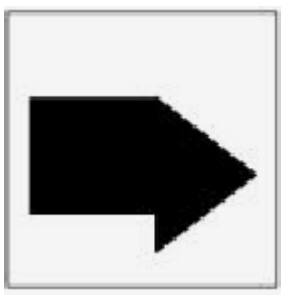
Which image can be made from the three shapes shown? / Koja slika se može složiti koristeći tri prikazna oblika?

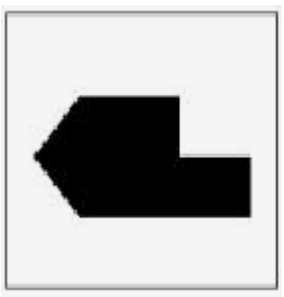


Select one:

a. 

b.

c. 

d. 

Question **20**

Not yet answered

Marked out of 1.00

Select three figures out of the following five figures which when fitted into each other would form a square.

Odaberi tri figure od ponuđenih pet koje, kada se spoje, formiraju kvadrat.

Select one:

a. 1, 2, 5

b. 2, 3, 4

c. 1, 2, 4

d. 5, 3, 1

Question **21**

Not yet answered

Marked out of 1.00

$$\frac{e^{4x-2}e^{x+1}}{e^{2x-1}}$$

Select one:

- a. e^{5x-2}
- b. e^{3x}
- c. e^{3x-2}
- d. e^{4x^2-2x-3}

Question **22**

Not yet answered

Marked out of 1.00

$$\frac{(2xy^2)^3}{(x^2y)^2} =$$

Select one:

- a. $8x^7y^8$
- b. $6xy^4$
- c. $\frac{8y^4}{x}$
- d. $\frac{6y^3}{3x}$

Question **23**

Not yet answered

Marked out of 1.00

Which is not the same as $8^{4/5}$?

Koji od navedenih nije isto što i $8^{4/5}$?

Select one:

- a. $4(4)^{1/5}$
- b. $2(128)^{1/5}$
- c. $(8^{1/5})^4$
- d. $(2\sqrt[5]{4})^4$

Question **24**

Not yet answered

Marked out of 1.00

$$16^{-1/4} \times 4^0$$

Select one:

- a. -2
- b. 0
- c. $\frac{-1}{2}$
- d. $\frac{1}{2}$

Question **25**

Not yet answered

Marked out of 1.00

$$\frac{\frac{1}{xy} - 1}{\frac{1}{x^2} - \frac{y}{x}}$$

Select one:

- a. $xy - 1$
- b. $\frac{x}{y}$
- c. xy
- d. $\frac{y}{x}$

Question **26**

Not yet answered

Marked out of 1.00

The expression $\frac{sinx}{tanx\ secx}$ is equivalent to

Izraz $\frac{sinx}{tanx\ secx}$ je ekvivalentan

Select one:

- a. $\cos^2 x$
- b. $\frac{1}{sin^2 x}$
- c. $\frac{1}{cos^2 x}$
- d. $\sec^2 x$

Question **27**

Not yet answered

Marked out of 1.00

If $f(x)= 2x+3$ and $g(f(x))=x$, then $g(15)=$

Ako je $f(x) = 2x+3$ i $g(f(x))=x$, onda $g(15)=$

Select one:

- a. 15
- b. 12
- c. 4
- d. 6

Question **28**

Not yet answered

Marked out of 1.00

If $f(x)=x^2+7x+12$ and $g(x)=-x^2+4x+21$, then for all x such that $x\neq -3$ and $x\neq 7, \frac{f(x)}{g(x)} =$

Ako je $f(x)=x^2+7x+12$ i $g(x)=-x^2+4x+21$, onda za svako x koje je $x\neq -3$ i $x\neq 7, \frac{f(x)}{g(x)} =$

Select one:

- a. $\frac{4-x}{x-7}$
- b. $\frac{x+4}{x-7}$
- c. $\frac{x+4}{7-x}$
- d. $\frac{x-4}{x-3}$

Question **29**

Not yet answered

Marked out of 1.00

If $4^x = 2^{y+1}$ and $9^y=3^{3x+4}$ then y equals

Ako je $4^x = 2^{y+1}$ i $9^y=3^{3x+4}$ onda je y

Select one:

- a. 11
- b. 10
- c. 5
- d. 19

Question **30**

Not yet answered

Marked out of 1.00

The inequality $|x-3|<5$ is satisfied if

Nejednakost $|x-3|<5$ je zadovoljena ako je

Select one:

- a. $-3<x<5$
- b. $x<8$
- c. $-5<x<5$
- d. $-2<x<8$

Question **31**

Not yet answered

Marked out of 1.00

Factorize x^2+2x-8

Rastavite na faktore x^2+2x-8

Select one:

- a. (x+2)(x-4)
- b. (x+8)(x-1)
- c. (x-2)(x+4)
- d. (x-8)(x+1)

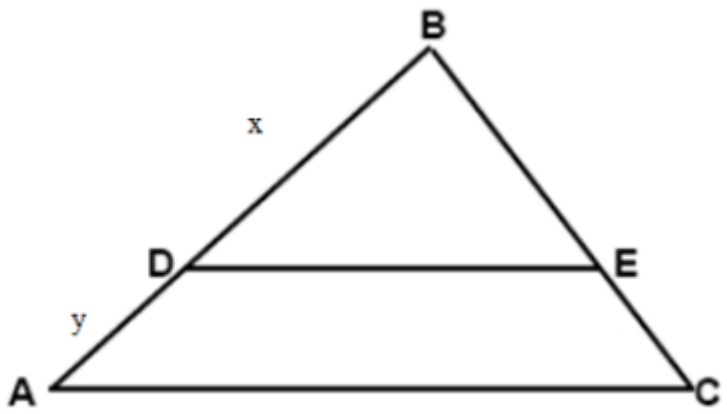
Question **32**

Not yet answered

Marked out of 1.00

In figure AC || DE. If BE = 5 and EC= 2, then what is the value $\frac{x+y}{y}$?

Na slici je AC || DE. Ako je BE = 5 i EC= 2, čemu je jednako $\frac{x+y}{y}$?



Select one:

- a. 2
- b. 3.5
- c. 1.4
- d. 2.5

Question **33**

Not yet answered

Marked out of 1.00

Evaluate $\lim_{n\to\infty} \frac{6n^2+12n}{3n^2+10\,000}$

Odredite $\lim_{n\to\infty} \frac{6n^2+12n}{3n^2+10\,000}$

Select one:

- a. 1
- b. 0
- c. 2
- d. 3

Question **34**

Not yet answered

Marked out of 1.00

The expression $\frac{sinx}{tanx\ secx}$ is equivalent to

Izraz $\frac{sinx}{tanx\ secx}$ je ekvivalentan

Select one:

- a. $\frac{1}{sin^2x}$
- b. $\sec^2 x$
- c. $\cos^2 x$
- d. $\frac{1}{cos^2x}$

Question **35**

Not yet answered

Marked out of 1.00

Graph the solution of the inequality

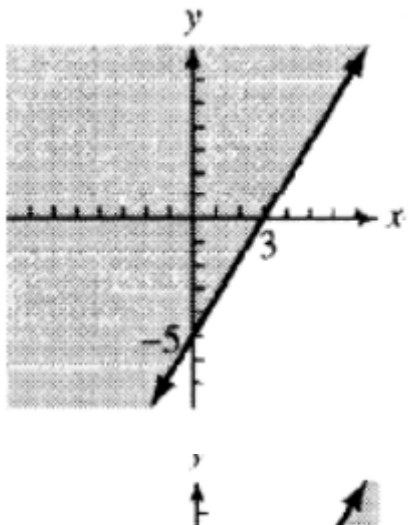
$$5x - 3y \geq 15$$

Grafički prikaži rješenje nejednakosti

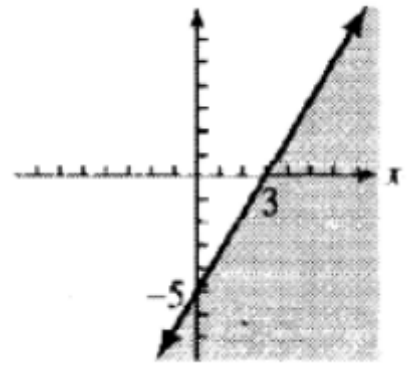
$$5x - 3y \geq 15$$

Select one:

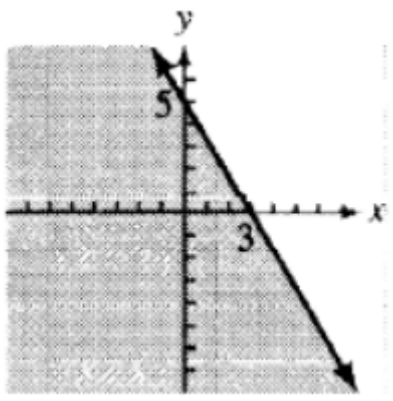
a.



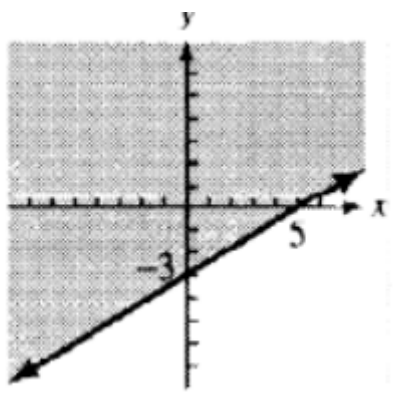
b.



c.



d.



Question **36**

Not yet answered

Marked out of 1.00

If $y = \frac{100^{\log x}}{x^2}$, for $x > 0$, then

Ako je $y = \frac{100^{\log x}}{x^2}$, za $x > 0$, onda

Select one:

a. y varies inversely with x / y je inverzno proporcionalno x

b. y is independent of x / y je nezavisno od x

c. y varies directly with x / y direktno proporcionalno x

d. y varies as the square of x / y zavisi od kvadrata od x

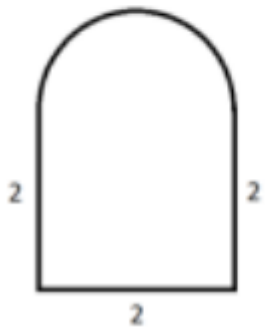
Question **37**

Not yet answered

Marked out of 1.00

Find the total area of the given shape, a square with side length 2 topped by a semi-circle.

Odrediti površinu datog oblika, koji se sastoji od kvadrata strane 2 i polukruga nad tim kvadratom.



Select one:

- a. $4+4\pi$
- b. $4+\pi$
- c. $4+\pi/2$
- d. $6+\pi$

Question **38**

Not yet answered

Marked out of 1.00

Adam can shovel a backyard in two hours. Ben can shovel the same backyard in three hours. How long would it take them working together?

Adam može očistiti dvorište za dva sata. Benu je potrebno tri sata da bi očistio isto to dvorište. Koliko im je potrebno da zajedno očiste dvorište?

Select one:

- a. 1 hour 12 minutes / 1 sat 12 minuta
- b. 2 hours 20 minutes / 2 sata 20 minuta
- c. 48 minutes / 48 minuta
- d. 2 hours 30 minutes / 2 sata 30 minuta

Question **39**

Not yet answered

Marked out of 1.00

The 100-th term in the sequence of numbers $\{0,3,8,15,24 \ldots\}$ is

100-ti član niza brojeva $\{0,3,8,15,24 \ldots\}$ je

Select one:

- a. 10000
- b. 1000
- c. 9999
- d. 99999

Question **40**

Not yet answered

Marked out of 1.00

A number n^2 is decreased by 1. If the square root of that result equals $\frac{3}{4}$, what is the value of n?

Broj n^2 je umanjen za 1. Ako je kvadratni korjen tog broja jednak $\frac{3}{4}$, kolika je vrijednost *n*?

Select one:

- a. $\frac{9}{16}$
- b. $\frac{5}{4}$
- c. $\frac{3}{4}$
- d. $\frac{9}{4}$

Question **41**

Not yet answered

Marked out of 1.00

Entropy is a measure of: / Entropija je mjera:

Select one:

- a. heat / toplote
- b. disorder/ neuređenosti
- c. magnetization/ magnetizacije
- d. temperature / temperature

Question **42**

Not yet answered

Marked out of 1.00

The pressure placed on a square with 1/2 meter sides is 1000 Pascals. How much force is being applied to the square?

Pritisak koji djeluje na kvadrat stranica od 1/2 metra iznosi 1000 paskala. Kolika sila se primjenjuje na kvadrat?

Select one:

- a. 450 N
- b. 300 N
- c. 250 N
- d. 500 N

Question **43**

Not yet answered

Marked out of 1.00

Which of the following waves is not a transverse wave?

Koji od sljedećih talasa nije transverzalni talas?

Select one:

- a. an electromagnetic wave/ elektromagnetski talas
- b. a wave traveling on a string/ talas koji putuje žicom
- c. a sound wave/ zvučni talas

Question **44**

Not yet answered

Marked out of 1.00

An object is located 1 meter in front of a converging lens having a focal length of 20 centimeters. At what distance behind the lens (whose thickness is negligible) will the image be formed?

Objekat je udaljen 1 metar od sabirnog sočiva fokalne dužine od 20 cm. Na kojoj udaljenosti iza sočiva (čija je debljina zanemariva) će se formirati slika?

Select one:

- a. 18 cm
- b. 22 cm
- c. 20 cm
- d. 25 cm

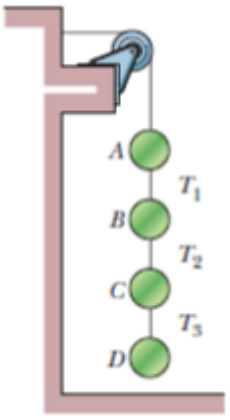
Question **45**

Not yet answered

Marked out of 1.00

Figure shows an arrangement in which four disks are suspended by cords. The longer, top cord loops over a frictionless pulley and pulls with a force of magnitude 98 N on the wall to which it is attached. The tensions in the three shorter cords are T1= 58.8 N, T2 = 49.0 N, and T3= 9.8 N. What is the mass disk B?

Na slici je prikazan sistem u kojem su četiri diska vise na kablovima. Duži, gornji kabel prelazi preko kotura bez trenja i djeluje snagom jačine 98 N na zid o koji je pričvršćen. Sile zatezanja u tri kraća kabela su T1 = 58,8 N, T2 = 49,0 N, a T3 = 9,8 N. Kolika je masa diska B?



Select one:

- a. 4 kg
- b. 1 kg
- c. 3 kg
- d. 2 kg

Question **46**

Not yet answered

Marked out of 1.00

You are to drive 300 km to an interview. The interview is at 11:15 A.M. You plan to drive at 100 km/h, so you leave at 8:00 A.M. to allow some extra time. You drive at that speed for the first 100 km, but then construction work forces you to slow to 40 km/h for 40 km. What would be the least speed needed for the rest of the trip to arrive in time for the interview?

Jedna osoba se mora voziti 300km na razgovor za posao. Razgovor počinje u 11:15. Osoba planira da se vozi brzinom od 100km/h, pa kreće u 08:00 sati kako bi imala više vremena. Osoba vozi 100km/h prvih 100 km, ali radovi na putu prouzrokuju smanjenje brzine na 40km/h sljedećih 40km. Koja je najmanja brzina potrebna za ostatak putovanja da osoba stigne na vrijeme?

Select one:

- a. 100 km/h
- b. 150 km/h
- c. 66 km/h
- d. 128 km/h

Question **47**

Not yet answered

Marked out of 1.00

An infinitely long wire carries a current of three amps. The magnetic field outside the wire:

Beskonačno duga žica provodi struju jačine tri ampera. Magnetno polje izvan žice:

Select one:

- a. points radially inward/ usmjereno je radialno unutra
- b. points radially away from the wire/ usmjereno je radialno od žice
- c. circles the wire/ kruži oko žice
- d. is zero/ je nula

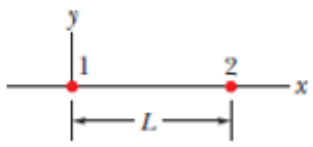
Question **48**

Not yet answered

Marked out of 1.00

In Figure particle 1 of charge +1.0 μC and particle 2 of charge -3.0 μC are held at separation L =10.0 cm on an x axis. If particle 3 of unknown charge q_3 is to be located such that the net electrostatic force on it from particles 1 and 2 is zero, what must be the x and y coordinates of particle 3?

Na slici se čestica 1 naboja +1,0 μC i čestica 2 naboja -3,0 μC drže na razdaljini L = 10,0 cm, na x osi. Ako se čestica 3 nepoznatog naboja q_3 locira tako da je ukupna elektrostatička sila na nju od čestica 1 i 2 jednaka nuli, koliko iznose x i y koordinate čestice 3?



Select one:

- a. X=-14 cm, Y=0 cm
- b. X=0 cm, Y= -14 cm
- c. X=14 cm, Y= 0 cm
- d. X=0 cm, Y=14 cm

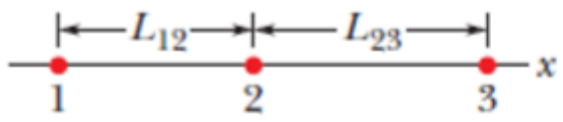
Question **49**

Not yet answered

Marked out of 1.00

In Figure, three charged particles lie on an x axis. Particles 1 and 2 are fixed in place. Particle 3 is free to move, but the net electrostatic force on it from particles 1 and 2 happens to be zero. If $L_{23} = L_{12}$, what is the ratio q_1/q_2?

Na slici su prikazane tri naelektrisane čestice, koje leže na x-osi. Čestice 1 i 2 su fiksirane. Čestica 3 se može kretati, ali je ukupna elektrostatična sila na nju od čestica 1 i 2 jednaka nuli. Ako $L_{23} = L_{12}$, koliki je odnos q_1/q_2?



Select one:

- a. 4
- b. -4
- c. -8
- d. 8

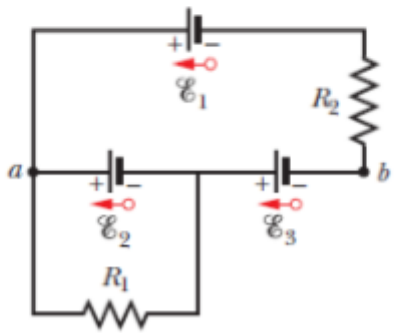
Question **50**

Not yet answered

Marked out of 1.00

In Figure, R_1 = 100 Ω, R_2 = 50 Ω, and the ideal batteries have emfs E_1 = 6.0 V, E_2 =5.0 V, and E_3 = 4.0 V. Find the current in resistor 1.

Na slici, R1 = 100 Ω, R2 = 50 Ω, a idealne baterije imaju elektromotornu silu od E_1 = 6,0 V, E_2 = 5,0 V i E_3 = 4,0 V. Pronađite struju u otporniku 1.



Select one:

- a. 1.1 A
- b. 1 A
- c. 0.05 A
- d. 0.06 A