



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UPSET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC CGL 2018 Tier-I Previous Year Paper (10-Jun-2019) (Shift 2)

Total Time: 1 Hour

Total Marks: 200

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks
1	General Intelligence and Reasoning	25	50
2	General Awareness	25	50
3	Quantitative Aptitude	25	50
4	English Comprehension	25	50

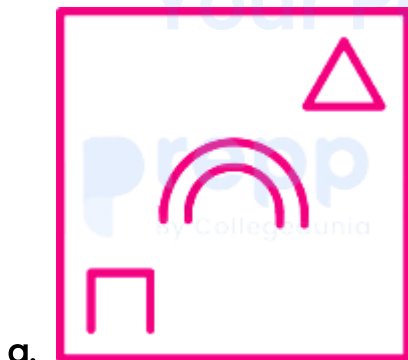
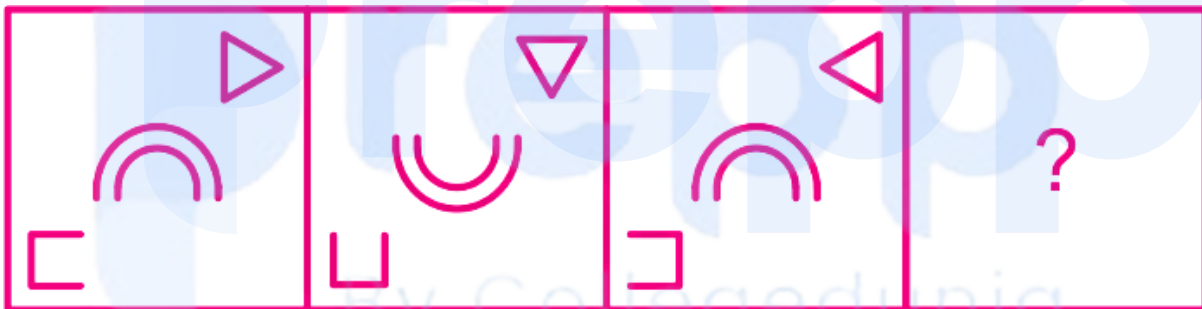
- 1.) A total of 60 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General Intelligence and Reasoning

1. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out. (+2, -0.5)

- a. FILO
- b. QTWZ
- c. POWZ
- d. KNQT

2. Select the figure that will come next in the following figure series. (+2, -0.5)



b.



c.

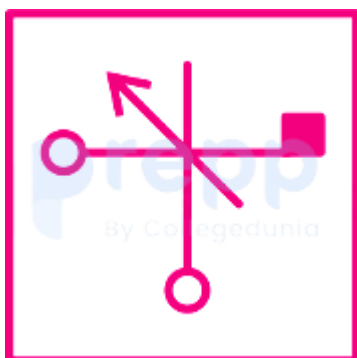


d.

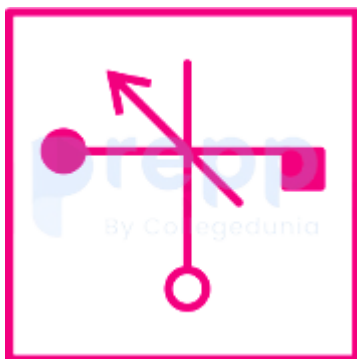


3. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

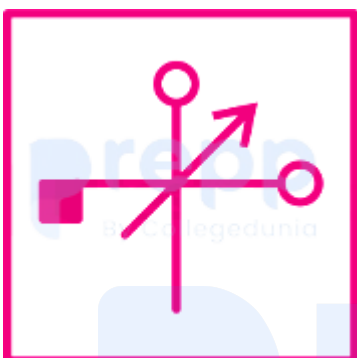
(+2, -0.5)



a.



b.



c.

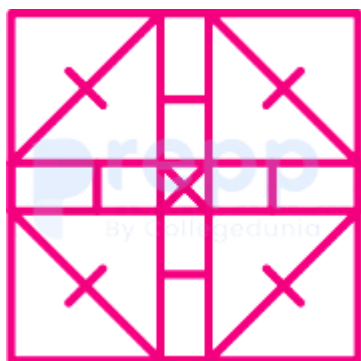


d.

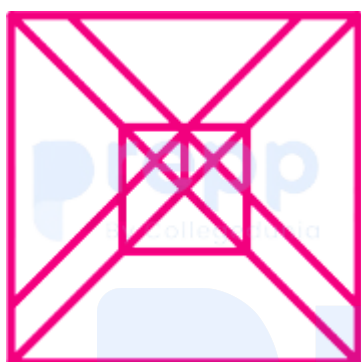
4. Select the figure in which the given figure is embedded.

(+2, -0.5)

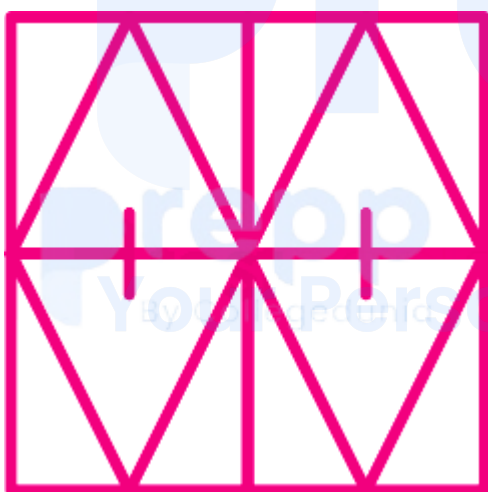




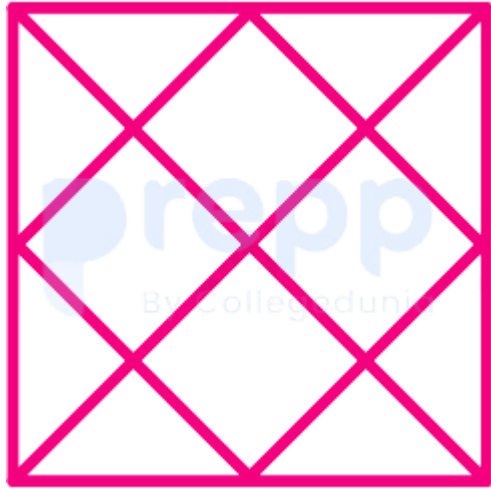
a.



b.



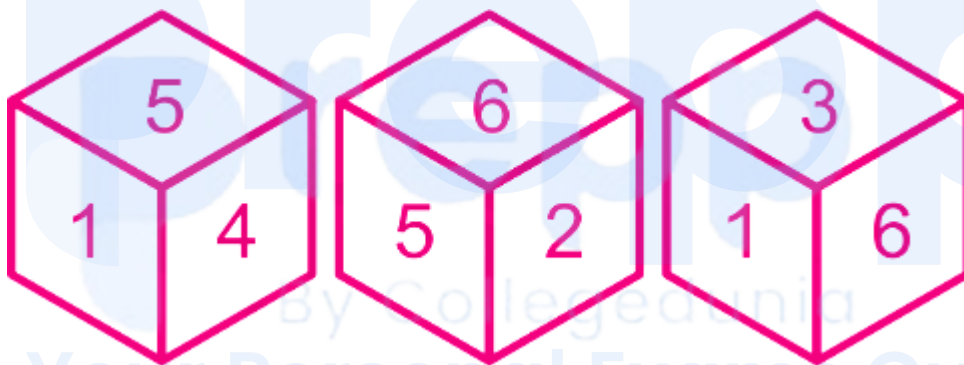
c.



d.

5. Three different positions of a dice are shown below. Which number appears on the face opposite number 3?

(+2, -0.5)



- a. 6
- b. 5
- c. 2
- d. 4

6. Which letter will replace the question mark (?) in the following series?

(+2, -0.5)

A, B, E, J, Q, ?

- a. A
- b. Z
- c. X
- d. Y

7. In a code language, COMPUTER is written as IVGFKNLX, How will TELEPHONE be written in that language? (+2, -0.5)

- a. VMLSKUOVG
- b. VMLSKVOVG
- c. VMNSKVOVG
- d. GVOVKSLMV

8. Saksham introduced Nidhi to his friend, "She is the daughter of the only son of my father's wife." How is Saksham related to Nidhi? (+2, -0.5)

- a. Father
- b. Brother
- c. Cousin
- d. Son

9. Find the missing number from the below options. (+2, -0.5)

12 7 95

14 8 132

16 9 ?

- a. 154
- b. 175
- c. 185
- d. 164

10. Find the missing number from the below options.

(+2, -0.5)

19 78 20

25 144 47

16 ? 13

- a. 29
- b. 96
- c. 76
- d. 58

11. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(+2, -0.5)

- a. Costly
- b. Expensive
- c. Valuable

d. Big

12. Select the word pair in which the two words are related in a same way as the two words in the following word-pair. (+2, -0.5)

Season : Winter

- a. Week : Calendar
 - b. Month : April
 - c. Summer : Autumn
 - d. Year : Century
-

13. Two statements are given followed by two conclusions numbered I and II. Assuming the statement to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. (+2, -0.5)

Statements:

Some teachers are philosophers.

Some philosophers are writers.

Conclusions:

I. Some writers are teachers.

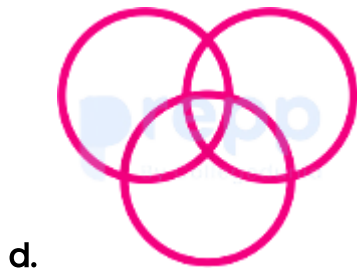
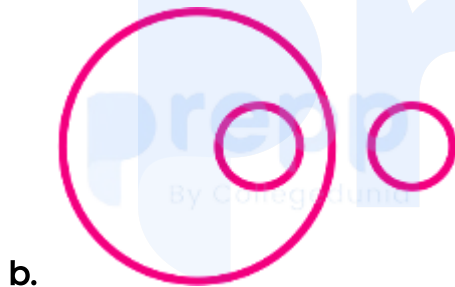
II. No writer is a teacher.

- a. Only conclusion I follows
- b. Neither conclusion I nor II follows
- c. Either conclusion I or II follows

d. Only conclusion II follows

14. Select the Venn diagram that best represents the relationship among the given set of classes. (+2, -0.5)

Students, Teachers, School



15. Which two signs should be interchanged in the following equation to make it correct? (+2, -0.5)

$$8 \times 2 + 5 - 16 \div 4 = 14$$

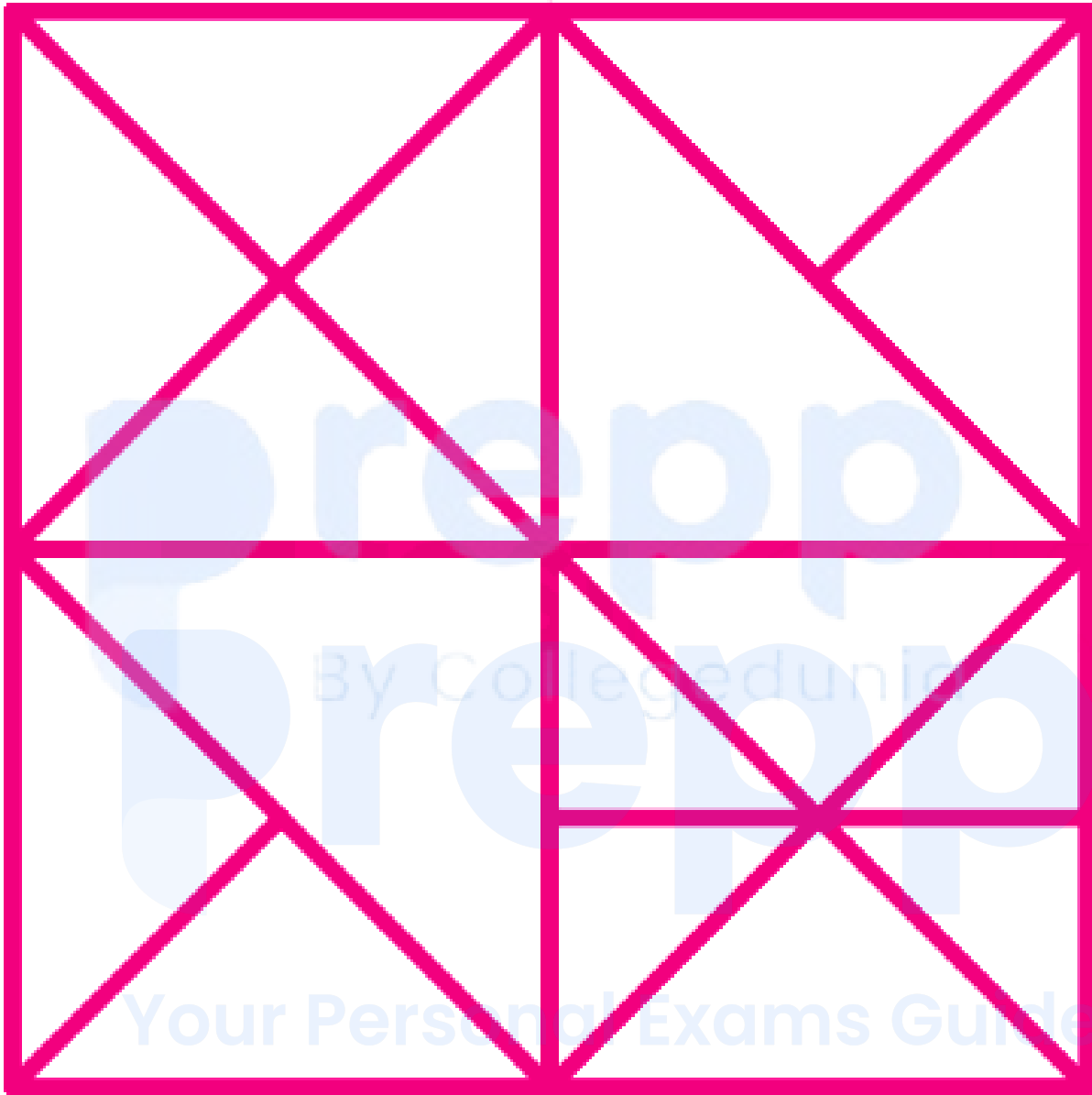
- a. $\div$ and $+$
- b. $\times$ and $+$
- c. $\times$ and $-$
- d. $\div$ and $\times$

16. How many triangles are there in the following figure?

(+2, -0.5)

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- a. 32
- b. 34
- c. 36
- d. 24

17. Nisha and Deepak are a married couple and have a daughter named Tanya. Currently, Deepak is 5 years older than Nisha and Nisha is thrice the age of Tanya. (+2, -0.5)

age of Tanya. If Tanya is 10 years old, what was her father's age at the time of his daughter's birth?

- a. 25 years
- b. 20 years
- c. 35 years
- d. 30 years

18. Select the term that will come next in the following series. (+2, -0.5)

3, 4, 5, 6, 9, 10, 11, 12, 15, ?

- a. 17
- b. 18
- c. 16
- d. 14

19. If EAGER is coded as 51759 then how will CADET be coded? (+2, -0.5)

- a. 34157
- b. 31547
- c. 31452
- d. 31450

20. Arrange the following words in a logical and meaningful order. (+2, -0.5)

1. Egypt
2. Africa
3. Great Pyramid
4. World
5. Giza

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

21. Three of the following four number-pairs are alike in a certain way and one is different. Pick the odd one out. (+2, -0.5)

- a. 56 : 49
- b. 64 : 54
- c. 32 : 28
- d. 104 : 91

22. Select the option that is related to the third number in the same way as the second number is related to the first number. (+2, -0.5)

12 : 68 :: 21 : ?

- a. 79

b. 49

c. 119

d. 117

23. 'China' is related to 'Yuan' in the same way as 'Japan' is related to (+2, -0.5)
'-----'.

a. Rand

b. Sushi

c. Lira

d. Yen

24. Select the option that will come next in the following series. (+2, -0.5)

BOP, DPN, FQL, HRJ, ?

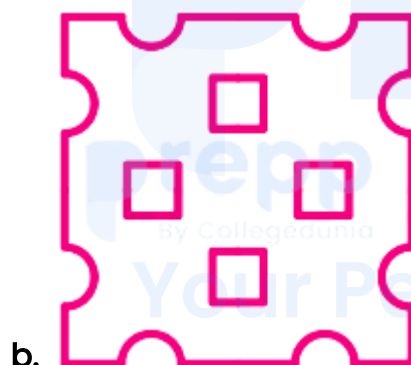
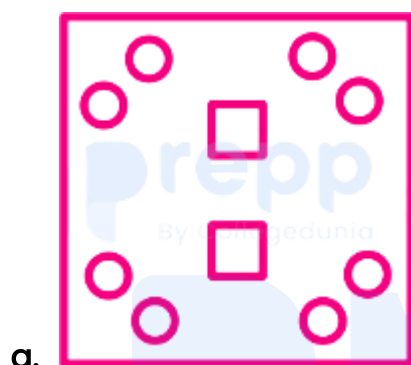
a. JHS

b. JSI

c. JSH

d. ITI

25. A square paper is folded and cut as shown below. How will it appear when (+2, -0.5)
unfolded?





d.

prepp

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General Awareness

26. Who became the first Indian player to represent India at the Wimbledon Tennis Championship of Independent India? (+2, -0.5)
- a. Vijay Amritraj
 - b. Leander Paes
 - c. Ramanathan Krishnan
 - d. Ramesh Krishnan
-
27. World Global Recycling Day was observed on _____ in 2019. (+2, -0.5)
- a. 2nd January
 - b. 16th February
 - c. 18th March
 - d. 10th February
-
28. Who among the following is the author of the book 'A Passage to England'?
- a. V S Naipaul
 - b. Khushwant Singh
 - c. Salman Rushdie
 - d. Nirad C Chaudhuri
-

29. Vyahula Giddha' is a popular folk dance performed during marriages in the Indian state of _____ . (+2, -0.5)

- a. Odisha
- b. Jharkhand
- c. Punjab
- d. Gujarat

30. Who among the following became the first woman to win the Abel Prize 2019? (+2, -0.5)

- a. Julia Robinson
- b. Karen Uhlenbeck
- c. Sophie Germain
- d. Maryam Mirzakhani

31. Silent Valley National Park is located in the Indian state of _____ . (+2, -0.5)

- a. Uttarakhand
- b. Kerala
- c. Madhya Pradesh
- d. West Bengal

32. What is the popular name of 'Ascorbic Acid'? (+2, -0.5)

- a. Vitamin B12
 - b. Vitamin A
 - c. Vitamin K
 - d. Vitamin C
-

33. In which year did Independent India win its first Olympic Gold in the game of hockey? (+2, -0.5)

- a. 1960
 - b. 1956
 - c. 1948
 - d. 1952
-

34. Which of the following countries has the largest parliament in the world? (+2, -0.5)

- a. UK
 - b. Japan
 - c. India
 - d. China
-

35. Which of the following is a vestigial organ? (+2, -0.5)

- a. Lungs
- b. Kidney

- c. Heart
 - d. Appendix
-

36. Mahatma Gandhi formed the Natal Indian Congress in the year _____. (+2, -0.5)

- a. 1874
 - b. 1894
 - c. 1854
 - d. 1863
-

37. The explosion of crackers is an example of _____. (+2, -0.5)

- a. Combustion
 - b. Evaporation
 - c. Decomposition
 - d. Precipitation
-

38. Which of the following Indian islands lies in the Bay of Bengal? (+2, -0.5)

- a. Diu
 - b. Andaman and Nicobar
 - c. Daman
 - d. Lakshadweep
-

39. The First Anglo-Burmese War ended with the signing of the _____. (+2, -0.5)

- a. Treaty of Purandar
 - b. Treaty of Salbai
 - c. Treaty of Titalia
 - d. Treaty of Yandabo
-

40. What is the dominant chemical present in vinegar? (+2, -0.5)

- a. Ethanoic acid
 - b. Formic acid
 - c. Sulphuric acid
 - d. Malic acid
-

41. Which one of the following is the brightest star in the Orion Constellation? (+2, -0.5)

- a. Eta Orionis
 - b. Betelgeuse
 - c. Alnilam
 - d. Rigel
-

42. What is the name given to the graph that shows all the combinations of two commodities that a consumer can afford at given market prices and within the particular income level in economic terms? (+2, -0.5)

- a. Supply Curve
 - b. Budget Line
 - c. Isocost Line
 - d. Demand Curve
-

43. The Bangladesh Liberation War ended on _____. (+2, -0.5)

- a. 14th November 1972
 - b. 17th October 1971
 - c. 2nd October 1974
 - d. 16th December 1971
-

44. How many members are present in the Sri Lankan parliament? (+2, -0.5)

- a. 225
 - b. 215
 - c. 210
 - d. 232
-

45. Who among the following was the first Indian origin recipient of the prestigious Pulitzer Prize? (+2, -0.5)

- a. Geeta Anand
- b. Siddhartha Mukherjee

c. Gobind Behari Lal

d. Jhumpa Lahiri

46. What is the geographic name given to a deep and narrow valley consisting of steep sides created by weathering and erosion by rivers, wind, rain and tectonic activity? (+2, -0.5)

a. Ridge

b. Buttes

c. Basin

d. Canyon

47. Of which Indian states is 'Gamocha' a cultural symbol? (+2, -0.5)

गमोचा किस भारतीय राज्य का सांस्कृतिक प्रतीक है ?

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a. Assam

b. Kerala

c. Haryana

d. Rajasthan

48. Who among the following was the first president of Pakistan? (+2, -0.5)

a. Ayub Khan

- b.** Zulfikar Ali Bhutto
 - c.** Iskander Mirza
 - d.** Yahya Khan
-

49. An economic condition when there is one buyer and many sellers is called _____. (+2, -0.5)

- a.** Oligopoly
 - b.** Monopoly
 - c.** Perfect Competition
 - d.** Monopsony
-

50. Who authored 'A Century is not Enough: My Roller-coaster Ride to Success'in 2018? (+2, -0.5)

- a.** Sachin Tendulkar
- b.** Virat Kohli
- c.** MS Dhoni
- d.** Sourav Ganguly

Quantitative Aptitude

51. If $\sqrt{x} - \frac{1}{\sqrt{x}} = 4$, then $x^2 + \frac{1}{x^2}$ is equal to: (+2, -0.5)

- a. 322
- b. 326
- c. 256
- d. 192

52. In a circle with centre O, AB is the diameter and CD is a chord such that ABCD is a trapezium. If $\angle BAC = 40^\circ$, then $\angle CAD$ is equal to: (+2, -0.5)

- a. 10°
- b. 15°
- c. 20°
- d. 50°

53. If $a : b = 3 : 2$, then $(5a + 2b) : (3a + 4b)$ is equal to: (+2, -0.5)

- a. 8 : 7
- b. 19 : 17
- c. 16 : 15
- d. 17 : 14

54. A train without stoppage travels with an average speed of 50 km/h, and (+2, -0.5)
with stoppage, it travels with an average speed of 40 km/h. For how many
minutes does the train stop on an average per hour?

- a. 13
- b. 14
- c. 12
- d. 15

55. The radius of a sphere is reduced by 40%. By what percent will its volume (+2, -0.5)
decrease?

- a. 78.4%
- b. 72.5%
- c. 60%
- d. 64%

56. If $a + b + c = 13$ and $ab + bc + ca = 54$, then $a^3 + b^3 + c^3 - 3abc$ is equal (+2, -0.5)
to:

- a. 182
- b. 793
- c. 91
- d. 273

57. If $\sec 4\theta = \operatorname{cosec} (\theta + 20^\circ)$, then θ is equal to: (+2, -0.5)

- a. 22°
- b. 18°
- c. 20°
- d. 14°

58. From a point P outside a circle, PAB is a secant and PT is a tangent to the circle, where A, B and T are points on the circle. If $PT = 5$ cm, $PA = 4$ cm and $AB = x$ cm, then x is equal to: (+2, -0.5)

- a. 2.25 cm
- b. 2.45 cm
- c. 2.75 cm
- d. 1.75 cm

59. The value of $\sin^2 38^\circ + \sin^2 52^\circ + \sin^2 30^\circ - \tan^2 45^\circ$ is equal to: (+2, -0.5)

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

60. The average marks of 40 students was found to be 68. If the marks of two students were incorrectly entered as 48 and 64 instead of 84 and 46 respectively, then what is the correct average? (+2, -0.5)

- a. 68.15
- b. 68.45
- c. 68.35
- d. 68.25

61. The price of sugar is increased by 20%. A person wants to increase his expenditure by 8% only. By what percent should he decrease his consumption? (+2, -0.5)

- a. 11%
- b. 10%
- c. 12%
- d. 9%

62. The value of $4.5 - (3.2 \div 0.8 \times 5) + 3 \times 4 \div 6$ is: (+2, -0.5)

- a. 5.7
- b. -8.5
- c. 4.2
- d. -13.5

63. If $\tan \theta = 2/3$, then $\frac{3 \sin \theta - 4 \cos \theta}{3 \sin \theta + 4 \cos \theta}$ is equal to: (+2, -0.5)

- a. $2/3$
- b. $-1/3$
- c. $1/3$
- d. $-2/3$

64. An article is sold for Rs. 528 after successive discounts of 20% and 12%. What is the marked price of the article? (+2, -0.5)

- a. Rs. 780
- b. Rs. 740
- c. Rs. 750
- d. Rs. 760

65. The difference between the compound interest and simple interest on Rs. X at 8% per annum for 2 years is Rs. 19.20. What is the value of x? (+2, -0.5)

- a. 3,200
- b. 2,800
- c. 2,500
- d. 3,000

66. $\triangle ABC \sim \triangle RQP$ and $AB = 4$ cm, $BC = 6$ cm and $AC = 5$ cm. If ar $(\triangle ABC)$: ar $(\triangle PQR) = 9 : 4$, Then PQ is equal to: (+2, -0.5)

- a. $10/3$ cm
- b. $8/3$ cm
- c. 4 cm
- d. $20/9$ cm

67. Two articles are sold for Rs. 9,720 each. On one, the seller gains 8% and on the other, he loses 10%. What is his overall gain or loss? (+2, -0.5)

- a. Rs. 360 gain
- b. Rs. 380 gain
- c. Rs. 380 loss
- d. Rs. 360 loss

68. In $\triangle ABC$, AD is the median and G is the centroid point on AD such that $AG : GD = 2 : 1$. Then ar $(\triangle BDG)$: ar $(\triangle ABC)$ is equal to: (+2, -0.5)

- a. 1 : 4
- b. 1 : 3
- c. 1 : 9
- d. 1 : 6

69. A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can finish a work in 5 days. In how many days will A alone complete 70% of that work? (+2, -0.5)

- a. 10
- b. 8
- c. 7
- d. 9

70. If the six digit number $15x1y2$ is divisible by 44, then $(x + y)$ is equal to: (+2, -0.5)

- a. 7
- b. 8
- c. 6
- d. 9

71. If $x + 1/x = 3$, then the value of $x^3 + x^{-3}$. (+2, -0.5)

- a. 52
- b. 36
- c. 27
- d. 18

72. **Direction:** The table shows the number of students enrolled in different colleges.

(+2, -0.5)

Colleges Year	A	B	C	D	E
2010	400	270	350	430	470
2011	430	300	330	450	490
2012	370	250	360	470	410
2013	410	310	370	420	430
2014	420	290	340	480	480

What is the ratio of the total students enrolled in colleges A and B in the year 2012 to the total students enrolled in colleges D and E in the year 2013?

- a. 63 : 86
- b. 62 : 88
- c. 58 : 63
- d. 62 : 85

73. **Direction:** The table shows the number of students enrolled in different colleges.

(+2, -0.5)

Colleges Year	A	B	C	D	E
2010	400	270	350	430	470
2011	430	300	330	450	490
2012	370	250	360	470	410
2013	410	310	370	420	430
2014	420	290	340	480	480

What is the average number of students studying in college D over the given years?

- a. 420
- b. 430
- c. 440
- d. 450

74. **Direction:** The table shows the number of students enrolled in different colleges.

(+2, -0.5)

Colleges Year	A	B	C	D	E
2010	400	270	350	430	470
2011	430	300	330	450	490
2012	370	250	360	470	410
2013	410	310	370	420	430
2014	420	290	340	480	480

In the year 2014, what per cent of student were enrolled in college C in 2014? (correct to one decimal place)

- a. 16.9%
- b. 16.7%
- c. 17.1%
- d. 17.3%

75. **Direction:** The table shows the number of students enrolled in different colleges.

(+2, -0.5)

Colleges Year	A	B	C	D	E
2010	400	270	350	430	470
2011	430	300	330	450	490
2012	370	250	360	470	410
2013	410	310	370	420	430
2014	420	290	340	480	480

The number of students studying in college E in the year 2013 is approximately what percent of the number of students studying in college B, C and D taken together in the year 2013 (nearest to one decimal place)?

- a. 38.2%
- b. 39.09%
- c. 39.4%
- d. 38.6%

English Comprehension

76. Select the most appropriate meaning of the underlined idiom in the given sentence. (+2, -0.5)

Coming from an affluent family, she found herself a square peg in a round hole when she married a poor farmer and moved to a small village.

- a. in a favourable situation
- b. in a financial crisis
- c. unhappy and regretful
- d. a misfit in the environment

-
77. Select the most appropriate meaning of the underlined idiom in the given sentence. (+2, -0.5)

When his envious competitor extended a hand of friendship, he smelt a rat.

- a. behaved arrogantly
- b. detected something wrong
- c. felt very pleased
- d. became complaisant

-
78. Select the correctly spelt word. (+2, -0.5)

- a. consenteous
- b. conscentious

c. conscientious

d. concentious

79. Select the most appropriate synonym of the given word. (+2, -0.5)

VINDICTIVE

a. forceful

b. watchful

c. revengeful

d. helpful

80. Select the correctly spelt word. (+2, -0.5)

a. challange

b. challenge

c. challenge

d. challeng

81. Given below are four jumbled sentences. Select the option that gives their correct order. (+2, -0.5)

A. European cloth manufacturers therefore had to depend on a plant called woad to make dyes.

B. However, cloth dyers preferred indigo which produced a rich blue colour.

- C. Being a plant of the temperate zones, woad was easily available in Europe.
- D. Indian indigo was very expensive and only small quantities reached the European markets.
- a. CBDA
- b. DACB
- c. DCAB
- d. ACBD

82. Select the correct passive form of the given sentence. (+2, -0.5)

He is clicking good pictures with his new camera.

- a. Good pictures are clicked by him with his new camera.
- b. Good pictures have been clicked by him with his new camera.
- c. Good pictures were clicked by him with his new camera.
- d. Good pictures are being clicked, by him, with his new camera.

83. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. (+2, -0.5)

Biologists believe that increased human activity means an accelerated rate of change in habitat for all creatures of the world.

- a. human activities mean an accelerated rate from change
- b. No improvement

- c. human activity is meaning an accelerated rate of change
- d. human activity meant a accelerated rate in change

- 84.** In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. (+2, -0.5)

Telling someone something that you admire about them can be called a random act (1) _____ kindness. It takes almost no (2) _____, yet it pays enormous dividends. Many people (3) _____ their entire lives wishing that others would (4) _____ them. Expectations are more from family and friends, (5) _____, even compliments from strangers feel good if they are genuine.

Select the most appropriate option to fill in blank No.1.

- a. in
- b. from
- c. with
- d. of

- 85.** In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. (+2, -0.5)

Telling someone something that you admire about them can be called a random act (1) _____ kindness. It takes almost no (2) _____, yet it pays enormous dividends. Many people (3) _____ their entire lives wishing that others would (4) _____ them. Expectations are more from family and friends, (5) _____, even compliments from strangers feel good if they are genuine.

Select the most appropriate option to fill in blank No.2.

- a. effort
- b. venture
- c. attempt
- d. work

-
86. In the following passage some words have been deleted. Fill in the blanks (+2, -0.5)
with the help of the alternatives given. Select the most appropriate option
for each blank.

Telling someone something that you admire about them can be called a random act (1) _____ kindness. It takes almost no (2) _____, yet it pays enormous dividends. Many people (3) _____ their entire lives wishing that others would (4) _____ them. Expectations are more from family and friends, (5) _____, even compliments from strangers feel good if they are genuine.

Select the most appropriate option to fill in blank No.3.

- a. spent
- b. spend
- c. had spent
- d. have been spending

-
87. In the following passage some words have been deleted. Fill in the blanks (+2, -0.5)
with the help of the alternatives given. Select the most appropriate option
for each blank.

Telling someone something that you admire about them can be called a random act (1)_____ kindness. It takes almost no (2)_____, yet it pays enormous dividends. Many people (3)_____ their entire lives wishing that others would (4)_____ them. Expectations are more from family and friends, (5)_____, even compliments from strangers feel good if they are genuine.

Select the most appropriate option to fill in blank No.4

- a. acknowledge
- b. admit
- c. concede
- d. confess

88. In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. (+2, -0.5)

Telling someone something that you admire about them can be called a random act (1)_____ kindness. It takes almost no (2)_____, yet it pays enormous dividends. Many people (3)_____ their entire lives wishing that others would (4)_____ them. Expectations are more from family and friends, (5)_____, even compliments from strangers feel good if they are genuine.

Select the most appropriate option to fill in blank No.5.

- a. because
- b. so
- c. unless
- d. however

89. Select the most appropriate antonym of the given word. (+2, -0.5)

AFFINITY

- a. aversion
- b. preference
- c. attraction
- d. empathy

90. Select the most appropriate synonym of the given word. (+2, -0.5)

PENSIVE

- a. tragic
- b. spontaneous
- c. reflective
- d. spiteful

91. Select the most appropriate antonym of the given word. (+2, -0.5)

ACCEPT

- a. acquire
- b. release
- c. reject
- d. obtain

92. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. (+2, -0.5)

A reason why there are so much misconception on dyslexia could be the sheer invisibility of the disorder.

- a. there are so many misconceptions about dyslexia
- b. there are so many misconception around dyslexia
- c. No improvement
- d. there are so much misconceptions against dyslexia

93. In the sentence identify the segment which contains the grammatical error. (+2, -0.5)

No sooner did he see the tiger when he ran as fast as he could.

- a. when he ran
- b. as fast as he could
- c. no sooner did
- d. he see the tiger

94. Select the word which means the same as the group of words given. (+2, -0.5)

Something which is fit to be eaten

- a. edible
- b. tasty

- c. delicious
 - d. unpalatable
-

95. In the sentence identify the segment which contains the grammatical error. (+2, -0.5)

The match is about to begin since the captain as well as the team are on the field.

- a. are on the field
 - b. as well as the team
 - c. The match is about to begin
 - d. since the captain
-

96. Select the word which means the same as the group of words given. (+2, -0.5)

Something which cannot be understood

- a. incomprehensible
 - b. infallible
 - c. illegible
 - d. inexplicable
-

97. Given below are four jumbled sentences. Select the option that gives their correct order. (+2, -0.5)

- A. Here, the picture perfect French Quarter and heritage laden Tamil streets blend into one another.
- B. The conflict of coexistence is evident in many metropolitan cities.
- C. The old and new, like two different worlds, surviving side by side yet never crossing that chasm.
- D. There is a place though, Puducherry, where contrasts are celebrated like nowhere else.

- a. BACD
- b. BDAC
- c. DCBA
- d. CDAB

98. Select the correct active form of the given sentence.

(+2, -0.5)

Let the bell be rung every forty minutes.

- a. Ring the bell every forty minutes.
- b. The bell ought to be rung every forty minutes.
- c. The bell should be rung every forty minutes.
- d. Let the bell keep ringing every forty minutes.

99. Select the most appropriate option to fill in the blank.

(+2, -0.5)

Technology can be _____ and people seem to be more attached to screens than ever before.

- a. addictive
- b. contagious
- c. infatuated
- d. incorrigible

100. Select the most appropriate option to fill in the blank.

(+2, -0.5)

People of the older generation _____ over the good old school days.

- a. retribute
- b. reminisce
- c. remind
- d. remember

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Answers

1. Answer: c

Explanation:

The pattern followed here is,

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

$F + 3 = I$; $I + 3 = L$; $L + 3 = O$

$Q + 3 = T$; $T + 3 = W$; $W + 3 = Z$

$P - 1 = O$; $O + 8 = W$; $W + 3 = Z$

$K + 3 = N$; $N + 3 = Q$; $Q + 3 = T$

Hence, 'POWZ' is the odd one out.

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2. Answer: d

Explanation:

The first three figures follow the following paths:-

Triangles in the images are rotating in the Clockwise direction.

Open boxes in the images are rotating in the Anti-Clockwise direction.

Two Concentric arcs in the first two images are facing the opposite directions.

Only the image in the fourth option continues the existing path.



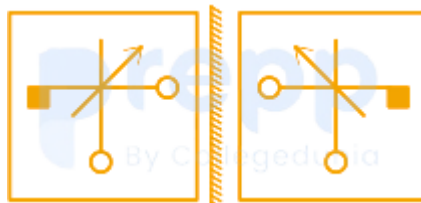
Hence, figure 4 is the correct answer.

3. Answer: d

Explanation:

When the mirror is placed to the right of the figure, the following changes occurs

1. The arrow facing towards the North East will face towards the North West in the mirror image.
2. Shaded Square, which is in the left side, will be appeared in the right side for the mirror image.
3. Circle which is at the right side will be appeared at the left side for the mirror image.
4. Vertical and Horizontal lines remain unchanged.



Hence, image 4 will be the mirror image of the given figure.

4. Answer: b

Explanation:

In options 1, 3, 4 we cannot find the question figure as there is no combination of two parallelograms and triangle inscribed in a pentagon.



Hence, figure 2 is correct.

5. Answer: b

Explanation:

From the figure, it is clear that,

1 and 2 are opposite to each other

3 and 5 are opposite to each other

4 and 6 are opposite to each other

Hence, number 5 appears on the face opposite to the number 3.

6. Answer: b

Explanation:

According to the alphabetical position of the letters,

$$A + 1 = B$$

$$B + 3 = E$$

$$E + 5 = J$$

$$J + 7 = Q$$

Similarly,

$$Q + 9 = Z$$

Hence, **Z** is the correct answer.

7. Answer: b

Explanation:

The pattern followed here is,



Similarly,



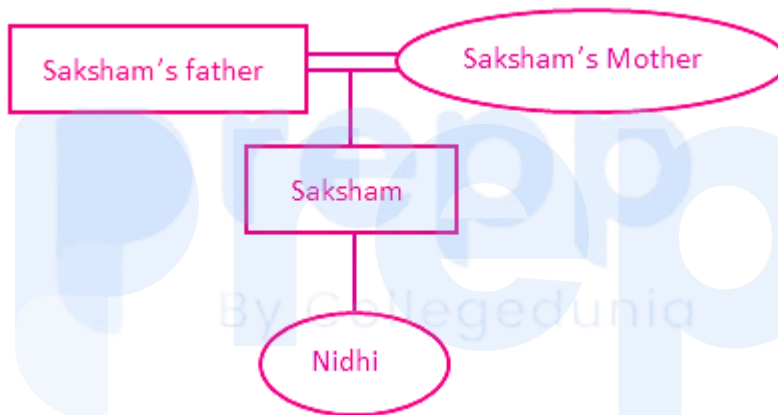
Hence, 'TELEPHONE' is written as 'VMLSKVOVG' in that language.

8. Answer: a

Explanation:

We can draw the diagram as per the symbol diagram below.

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation



Hence, Saksham is the father of Nidhi.

9. Answer: b

Explanation:

The pattern followed here is,

In first row,

$$= (12)^2 - (7)^2$$

$$= 144 - 49$$

$$= 95$$

In second row,

$$= (14)^2 - (8)^2$$

$$= 196 - 64$$

$$= 132$$

Similarly, in the third row,

$$= (16)^2 - (9)^2$$

$$= 256 - 81$$

$$= 175$$

Hence, 175 is the correct answer.

10. Answer: d

Explanation:

The pattern followed here is,

In the first row,

$$(19 + 20) \times 2 = 78;$$

In the second row,

$$(25 + 47) \times 2 = 144;$$

Similarly, in the third row,

$$(16 + 13) \times 2 = \mathbf{58}$$

Hence, 58 is the correct answer.

11. Answer: d

Explanation:

The word "Costly", "Expensive", and "Valuable" signifies the quality and the amount of money associated with the product. But the Word "Big" signifies the size of the products.

Hence, the word "Big" is the Odd one.

12. Answer: b

Explanation:

The word in the right side comes under the classification of word in the left side.

For example, winter is one of the types among many seasons.

Similarly, April is one among many months.

Hence, April is the correct answer.

13. Answer: c

Explanation:

The least possible Venn diagram for the given statements is as follows,



Conclusions:

I. Some writers are teachers → False (It is possible but not definite.)

II. No writer is a teacher → False (It is possible but not definite.)

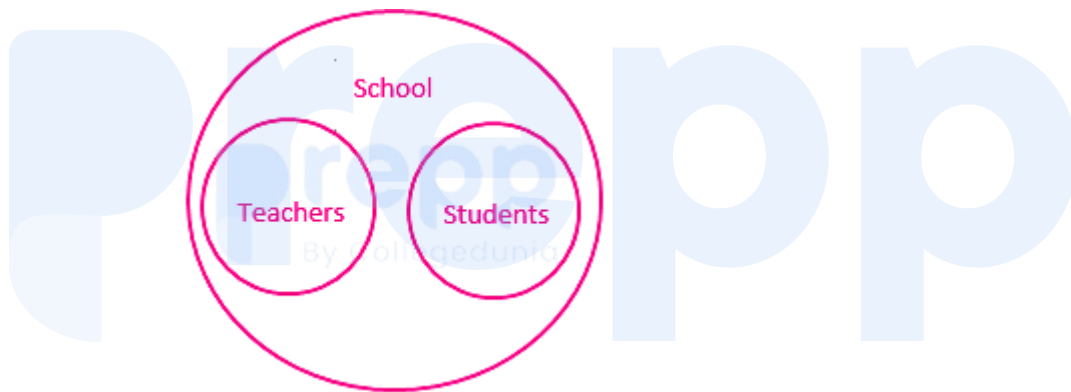
Both conclusions I and II forms complementary pair.

Hence, either conclusion I or II follows.

14. Answer: a

Explanation:

Teachers and students will be inside the School.



Hence, the Venn diagram in the figure 1 is the correct answer.

15. Answer: b

Explanation:

According to BODMAS rule, the sequence of arithmetic operation will be Division, Multiplication, Addition and Subtraction.

$8 \times 2 \div 5 - 16 + 4$ is not equal to 14

$8 - 2 + 5 \times 16 \div 4$ is not equal to 14

$8 \div 2 + 5 - 16 \times 4$ is not equal to 14

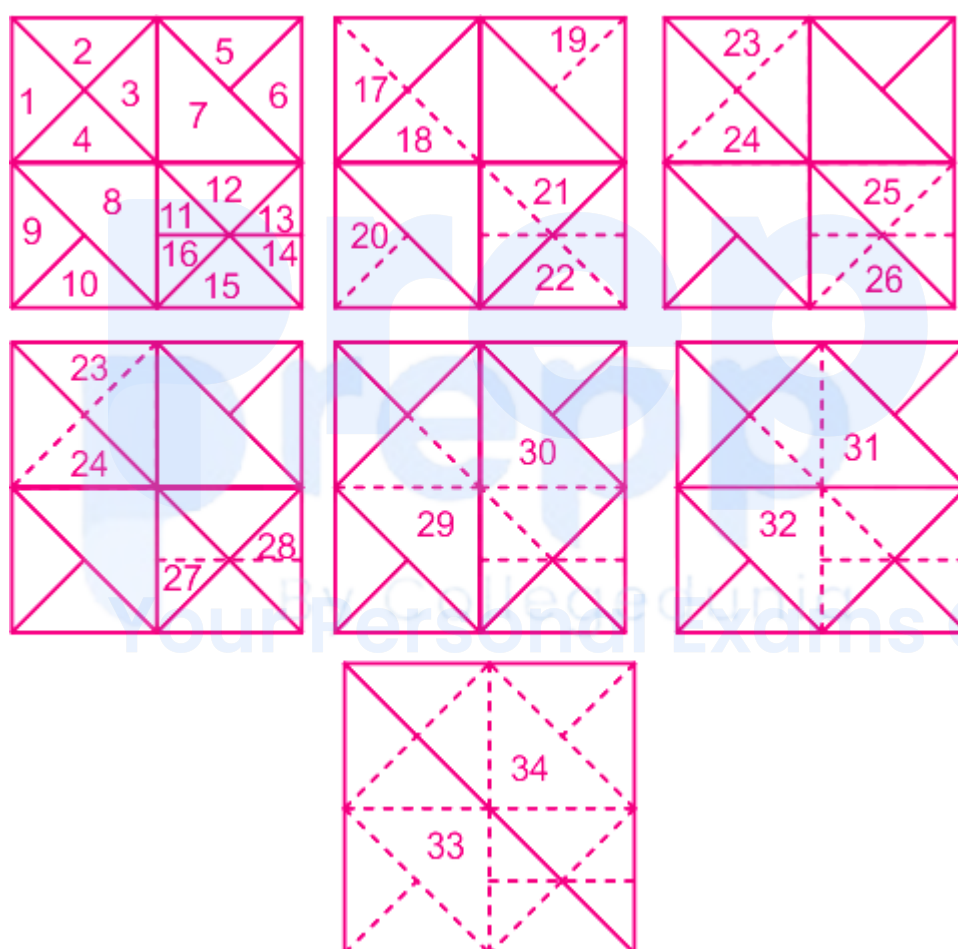
$8 + 2 \times 5 - 16 \div 4$ is equal to 14

By interchanging $\times$ and $+$, we can make the equation correct.

Hence option 2 is correct.

16. Answer: b

Explanation:



Hence, there are 34 triangles in the given figure.

17. Answer: a

Explanation:

Let the present age of Tanya be X .

Given that $X = 10$

Nisha's age = $3x$

$= 3 \times 10 = 30$

Deepak's age = $30 + 5 = 35$

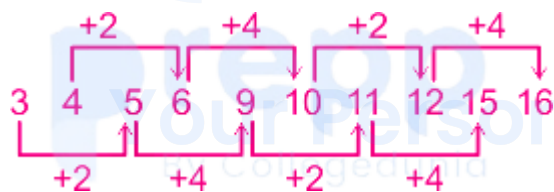
Deepak's age at the time of Tanya's birth = $35 - 10 = 25$

Hence, 25 is the correct answer.

18. Answer: c

Explanation:

The pattern followed here is,



Hence, 16 is the correct answer.

19. Answer: c

Explanation:

According to the alphabetical positions of the letters,

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

E	A	G	E	R	Total
5	1	7	5	$18 = 1 + 8 = 9$	51759

Similarly,

C	A	D	E	T	Total
3	1	4	5	$20 = 2 + 0 = 2$	31452

Hence, 31452 is the correct answer.

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20. Answer: d

Explanation:

Great Pyramid is located in Giza.

Giza is located in Egypt.

Egypt is located in Africa.

Africa is located in World.

Hence the logical and meaningful order is 3, 5, 1, 2, and 4.

21. Answer: b

Explanation:

In all options except '64 : 54', the number in left side is the multiple of 8 and the number in the right side is multiple of 7.

In option 2, the number in the right side is not the multiple of 7.

Hence 64 : 54 is the odd one out.

22. Answer: c

Explanation:

The pattern followed here is,

$$(12 \times 6) - (12 \div 3) = 68;$$

Similarly,

$$(21 \times 6) - (21 \div 3) = 119$$

Hence, 119 is the correct answer.

★ Alternate Method

The numbers are in the ratio of 3/17.

$$12/68 = 3/17$$

Similarly,

$$21/119 = 3/17.$$

23. Answer: d

Explanation:

'Yuan' is the currency of China.

'Rand' is the currency of South Africa.

'Sushi' is a food item in Japan.

'Lira' is the currency of Turkey.

'Yen' is the currency of Japan.

Hence, 'Japan' is related to 'Yen'.

24. Answer: c

Explanation:

The pattern followed here is,

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

$B + 2 = D$; $D + 2 = F$; $F + 2 = H$; $H + 2 = J$;

$O + 1 = P$; $P + 1 = Q$; $Q + 1 = R$; $R + 1 = S$;

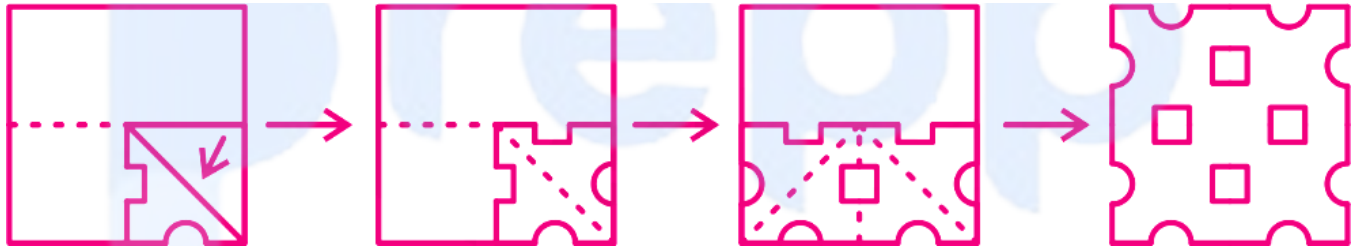
$P - 2 = N$; $N - 2 = L$; $L - 2 = J$; $J - 2 = H$

Hence, 'JSH' is the correct answer.

25. Answer: b

Explanation:

The paper is unfolded in the manner given below,



Hence, figure 2 is the correct answer.

26. Answer: c

Explanation:

- Ramanathan Krishnan was the first Indian player to represent independent India at Wimbledon
- He is one of India's greatest tennis players of all time
- He had won the Junior Wimbledon title in 1954
- He also reached the semifinals of Wimbledon twice in 1960 and 1961

27. Answer: c

Explanation:

- World Global Recycling Day was **observed on 18th March 2019**
- It was the effort of the Bureau of International Recycling and the Global Recycling Foundation
- The theme of the day was 'Recycling Into The Future' to empower youth for future of the planet
- It was first created in 2018 by the Bureau of International Recycling

28. Answer: d

Explanation:

- A Passage to England was authored by **Nirad C Chaudhuri**
- The book shows the author's impressions on the way of living in England at his first visit
- It was written when the author was at the age of 57
- The book was first published in 1959

★ Additional Information

- **A Passage to India** is a 1924 novel by English author E. M. Forster set against the backdrop of the British Raj and the Indian independence movement in the 1920s.
- It was selected as one of the 100 great works of 20th-century English literature by the Modern Library and won the 1924 James Tait Black Memorial Prize for fiction

29. Answer: c

Explanation:

- The popular folk dance is performed in **Punjab**
- The dance is similar to Bhangra but performed only by women
- The dance is especially famous in the village of Malwa
- Vyahula Giddha is danced in a circle. The girls form a ring. One of them uses a (dholki) while sitting in the centre

30. Answer: b

Explanation:

- **Karen Uhlenbeck** was the first woman to be awarded the Abel Prize in history

- The Abel Prize is an annual prize awarded by the King of Norway to excellent mathematicians
- It is named after the famous Norwegian mathematician Niels Henrik Abel
- Karen Uhlenbeck, a professor at University of Texas won the prize for her pioneering achievements in geometric partial differential equations, gauge theory and integrable systems, and for the fundamental impact of her work on analysis, geometry and mathematical physics

31. Answer: b

Explanation:

The correct answer is **Kerala** .

★ Key Points

- Silent Valley National Park is a beautiful representation of the last remaining rainforest of Kerala .
- Silent Valley was declared as National Park in 1984 and formally inaugurated in the year 1985.
- In 1914, Silent Valley forests were declared as Reserved Forest. Till 1921, Silent Valley was part of the South Malabar Forest Division with headquarters at Nilambur.
- In 1921, it came under the control of the Palakkad Forest Division and managed so until 1988.
- 41 mammals, 211 birds, 49 reptiles, 47 amphibians, 12 fishes, 164 butterflies, and 400 species of moths are found here.
- This park harbors a viable population of Lion-tailed macaques which also is the flagship species of the Park.
- It is at the heart of Nilgiri Biosphere Reserve and consists of areas of South Western Ghats rain forests and tropical wet evergreen jungle.
 - River Kunthi passes through it.
- Flora : Humid wet Evergreen Rain Forests. The major plants of the park are Teak, Amla, Semal, Rosewood along bamboo.

- Fauna : Silent Valley Park is known for many highly endangered species such as lion-tailed macaque, tiger, gaur, leopard, wild boar, panther, Indian Civet, and Sambhar.

32. Answer: d

Explanation:

- **Ascorbic Acid** is commonly known as **Vitamin C**.
- **Vitamin C** is an essential nutrient for the body as it is involved in tissue repair and enzyme related functions.
- A deficiency of vitamin C can cause a disease known as scurvy.
- Bruising, bleeding gums, weakness, fatigue and rash are common symptoms of scurvy.
- The vitamin can be obtained from consuming citrus fruits.

Name	Function	Sources	Chemical Name
B12	Useful for nerve and blood cells, production of DNA	Chicken, Fish, Curd and Cheese	Cynocobalamin
A	Helpful in vision and cell growth	Carrot, Oranges and Apricots	Retinol
K	Blood clotting and protein production	Spinach, Cabbage and Cereals	Phylloquinone

33. Answer: c

Explanation:

- Independent India won its first Olympic Gold for hockey in **1948 just a year after independence**

- The 1948 Olympics took place in Wembley Park in London
- India in total took part in 39 events throughout 10 sports and came home with the single gold medal
- India won its maiden medal by defeating Great Britain 4-0 in the finals

34. Answer: d

Explanation:

The correct answer is option 4 i.e China,

- **China has the largest** parliament in the world
- It has a **strength of 2,980 seats** in the **singular house** of its parliament
- In other words, the **parliament is unicameral**.
- The **world average** of parliamentarians per country is **245**.
- **China's Parliament** is called the **National People's Congress**.

Country	Parliaments Members
UK	1,443
Japan	707
India	790

35. Answer: d

Explanation:

- **The appendix** is a vestigial organ out of the above options
- A vestigial organ is an organ in the body that has lost its use because of evolution
- In other words the organ did serve some purpose in the past for the species but now has been reduced to something smaller and simple as it is no longer

needed

- The actual function of the appendix from the past is still unknown
- Some other examples of vestigial organs are the tail bone and wisdom teeth

36. Answer: b

Explanation:

- Mahatma Gandhi founded the Natal Indian Congress **in the year 1894.**
- The Natal Indian Congress (NIC) was an organization formed to fight the discrimination faced by Indians in South Africa
- Gandhi was the first Honorary Secretary of the Congress.
- This organisation went on to lead many non-violent protests in the cause of discrimination faced not just by Indians but also by native Africans.

37. Answer: a

Explanation:

- Crackers explode because of **a combustion reaction** that takes place
- The explosion is caused when the chemicals present in the powder filling are ignited
- Combustion is a reaction in which a substance burns in the presence of oxygen to release energy
- The released energy from the reaction is what causes the display of light and also the heat that is emitted from the crackers
- The basic reaction can be summed up as: **Reagent + Oxygen → Product + Energy**

38. Answer: b

Explanation:

- **The Andaman and Nicobar Islands** lie in the Bay of Bengal
- They are an archipelago of 572 islands in total out of which only 37 are inhabited
- They are located about 600 kilometers east of the coast of Myanmar
- They are an Indian Union Territory with an area of $8,250 \text{ km}^2$
- The capital of the islands is the largest city of Port Blair

39. Answer: d

Explanation:

- The Anglo-Burmese war halted after **the Treaty of Yandabo** was signed
- The treaty was signed in February of 1826 that ended the two year long war
- The British won the first war after the death of the Burmese General Bandula in a battle south of Ava
- The victory was also majorly because of the constant supplies from India that allowed the British to continue expedition for two seasons

40. Answer: a

Explanation:

- **Ethanoic acid** is the most abundant chemical on vinegar
- Vinegar is basically a solution of ethanoic acid and water in varying concentrations
- The acid is what gives vinegar such a strong smell
- The chemical formula of ethanoic acid is CH_3COOH and has a pH of 2.4 which gives it the sour taste

Acid	Formula
Formic Acid	CH_2O_2
Sulphuric Acid	H_2SO_4
Malic Acid	$\text{C}_4\text{H}_6\text{O}_5$

41. Answer: d

Explanation:

The correct answer is Option 4, i.e. Rigel.

- **Rigel is the brightest star** in the **Orion Constellation**.
- The star is a blue star in the super giant category.
- The star has a mass 18 time that of our own sun.
- It is the seventh brightest star in the night sky.
- Surface temperatures on Rigel can reach up to 11000 K.
- **Eta Orionis** is a multiple star in the constellation Orion.
- **Betelgeuse** the second-brightest in the constellation of Orion.
- **Alnilam** is a large blue supergiant star some 2,000 light-years distant in the constellation of Orion

42. Answer: b

Explanation:

- **The Budget Line** shows all the combinations of two commodities that a consumer can afford at given market prices and within the particular income level in economic terms
- In other words, the budget line will show how much quantity of two commodities can be bought by consumer if a certain budget is fixed

- The two constraints in this particular scenario are the fixed budget and the market price of the two goods
- If there are two goods X and Y, the budget equation can be expressed by $P_x X + P_y Y = M$
- Where P_x and P_y are prices of X and Y, Q_x and Q_y are quantities of X and Y and M is the money income (budget) of consumer

43. Answer: d

Explanation:

- The Liberation War **ended on 16th December 1971**
- The War lead to the independence of the country of Bangladesh
- Before independence Bangladesh was known as East Pakistan
- The war started when West Pakistan started a military operation to eliminate nationalist citizens known as Operation Searchlight
- This was triggered because of massive civil disobedience caused of civilians, it ended in 16 December after the military surrendered

44. Answer: a

Explanation:

- There are **225 seats** in the Sri Lankan Parliament.
- Similar to India, the members of the Sri Lankan Parliament for a five-year term.
- The Sri Lankan parliament is modeled after the British Parliament.
- The current parliament is the 16th parliament of Sri Lanka.

45. Answer: c

Explanation:

The correct answer is Gobind Behari Lal.

★ Key Points

- The first Indian to win a Pulitzer Prize was Gobind Behari Lal, a journalist in the year 1937 .
- **Jhumpa Lahiri ,Geeta Anand ,Siddhartha Mukherjee** have also won Pulitzer awards for a novel, journalism, Biography in medicine.

★ Additional Information

- Pulitzer Prize
 - It is one of the prestigious awards in the United States given for its achievements in the field of Online Journalism and newspaper, literature, and musical composition.
 - The Pulitzer Prize was established in the year 1917 and named after the American publisher Joseph Pulitzer.
 - Presented by : Columbia University

46. Answer: d

Explanation:

- A **canyon** is a deep and narrow valley that is formed by weathering, erosion or tectonic activity
- Most canyons are formed by long time erosion of a plateau or table land
- Rivers have a tendency to carve out canyons in the terrains as moving water can cause large scale erosion over long periods of time
- The largest canyon in the world is the Yarlung Tsangpo Grand Canyon situated in Tibet which is at 5,500 meters

47. Answer: a

Explanation:

- The Gamocha **is a cultural symbol of Assamese culture**
- It is an article of clothing which is also known as Gamusa in Assamese.
- It is primarily a white rectangular piece of clothing that is made from Pat Silk traditionally.
- It has red borders on three of its side and red woven motif on the fourth one.
- Even though traditionally Pat Silk was used to make it, common Gamochas are made of cotton yarn.

48. Answer: c

Explanation:

The correct answer is Iskander Mirza.

★ Key Points

- **Iskander Mirza was the first President of Pakistan**, he was a former Major General of the country
- He became **President in 1956**, before that Pakistan did not have the title of President
- There were Governor Generals from 1947 to 1956 as Pakistan was still a republic state with the British Monarch as head
- In 1956, the **Pakistani Constitution** was passed and the country appointed its first President.
- **Liaquat Ali Khan**, served as the **first prime minister of Pakistan** after independence (1947–1951).

49. Answer: d

Explanation:

- A **monopsony** is a market condition where there is a single buyer with many sellers

- It is in fact a condition which is opposite to that of a monopoly
- In a monopsony the single buyer has large control on the market as the major purchaser of goods and services provided by many sellers
- An example would be a food retailer that buys supplies from many farmers growing the same crop

Type	Description
Oligopoly	A market dominated by only a small number of firms
Monopoly	A market structure where a single firm controls the entire market
Perfect Competition	Market where a large number of small firms compete against each other. In this scenario, a single firm does not have any significant market power

50. Answer: d

Explanation:

- A Century is not Enough: My Roller-coaster Ride to Success was **authored by Sourav Ganguly** in 2018
- It is the autobiography of one of India's most famous cricket players
- The book was released on 24 February 2018
- It is co-authored by Gautam Bhattacharya

51. Answer: a

Explanation:

As we know,

$$\Rightarrow (x - 1/x)^2 = x^2 + 1/x^2 - 2$$

$$\text{Given, } \sqrt{x} - 1/\sqrt{x} = 4$$

$$\Rightarrow (\sqrt{x} - 1/\sqrt{x})^2 = (\sqrt{x})^2 + (1/\sqrt{x})^2 - 2$$

$$\Rightarrow 4^2 = x + 1/x - 2$$

$$\Rightarrow x + 1/x = 16 + 2 = 18$$

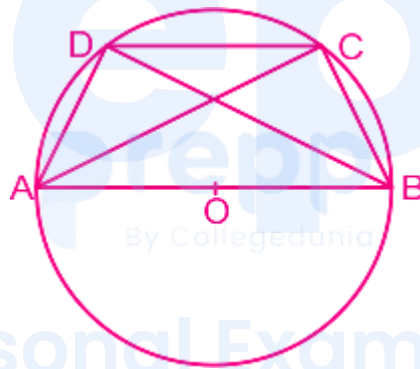
$$\Rightarrow (x + 1/x)^2 = x^2 + (1/x)^2 + 2$$

$$\Rightarrow 18^2 = x^2 + 1/x^2 + 2$$

$$\Rightarrow x^2 + 1/x^2 = 324 - 2 = 322$$

52. Answer: a

Explanation:



Given, $\angle BAC = 40^\circ$

$\Rightarrow \angle ACB = 90^\circ$ [angle in a semicircle is 90°]

In $\triangle ACB$

$\Rightarrow \angle ACB + \angle CBA + \angle BAC = 180^\circ$

$\Rightarrow \angle CBA = 180^\circ - 90^\circ - 40^\circ = 50^\circ$

$\Rightarrow \angle DCA = \angle CAB = 40^\circ$ [Alternate interior angle]

$\Rightarrow \angle DCA = \angle ABD = 40^\circ$ and $\angle CAD = \angle DBC$

$\therefore$ Two inscribed angles forming the same arc or forming two equal arcs are equal.

$$\Rightarrow \angle CBA = \angle DBC + \angle ABD$$

$$\Rightarrow 50^\circ = \angle DBC + 40^\circ$$

$$\Rightarrow \angle DBC = 50^\circ - 40^\circ = 10^\circ$$

$$\Rightarrow \angle CAD = \angle DBC = 10^\circ$$

53. Answer: b

Explanation:

$$\Rightarrow a : b = 3 : 2$$

Suppose $a = 3$ & $b = 2$

$$\Rightarrow (5a + 2b) : (3a + 4b)$$

$$\Rightarrow (5 \times 3 + 2 \times 2) : (3 \times 3 + 4 \times 2)$$

$$\Rightarrow (15 + 4) : (9 + 8)$$

$$\Rightarrow 19 : 17$$

54. Answer: c

Explanation:

Without stoppage average speed = 50 km/h

With stoppages average speed = 40 km/h

As we know,

Time of rest per hour equal to the difference in average speed divided by the speed without stoppage.

$$\text{Required time} = [(50 - 40)/50] \times 60 = 12$$

So, A train stops on an average 12 minute/hr

55. Answer: a

Explanation:

Let the radius of sphere be r cm.

$$\text{Volume of sphere} = \left[\frac{4}{3} \right] \times \pi r^3$$

If the radius reduced by 40%

$$\text{New radius of sphere} = r \times [60/100] = 0.6r$$

$$\text{New volume of sphere} = \left[\frac{4}{3} \right] \times \pi \times (0.6r)^3 = \left[\frac{4}{3} \right] \times \pi \times 0.216 \times r^3$$

$$\text{Volume decreased by} = \frac{4}{3}\pi r^3 - \frac{4}{3}\pi \times 0.216r^3 = \frac{4}{3}\pi r^3 (1 - 0.216) = 0.784 \times \frac{4}{3}\pi r^3$$

$$\text{Required percentage} = \left[\frac{0.784 \times \frac{4}{3}\pi r^3}{\frac{4}{3}\pi r^3} \right] \times 100 = 78.4\%$$

Short trick:

$$\Rightarrow -40 - 40 + (40 \times 40)/100 = (-80) + 16 = (-64)\%$$

$$\Rightarrow -64 - 40 + (64 \times 40)/100 = (-104) + 25.6 = -78.4\%$$

56. Answer: c

Explanation:

$$\text{Given, } a + b + c = 13 \text{ and } ab + bc + ca = 54$$

As we know,

$$\Rightarrow a^3 + b^3 + c^3 - 3abc = (a + b + c) [(a + b + c)^2 - 3(ab + bc + ca)]$$

$$\Rightarrow 13 [13^2 - 3 \times 54]$$

$$\Rightarrow 13 (169 - 162)$$

$$\Rightarrow 13 \times 7$$

$$\Rightarrow 91$$

57. Answer: d

Explanation:

Given:

$$\sec 4\theta = \operatorname{cosec} (\theta + 20^\circ)$$

Calculation:

$$\sec 4\theta = \operatorname{cosec} (\theta + 20^\circ)$$

$$\Rightarrow \sec 4\theta = \sec [90^\circ - (\theta + 20^\circ)]$$

$$\Rightarrow 4\theta = 90^\circ - \theta - 20^\circ$$

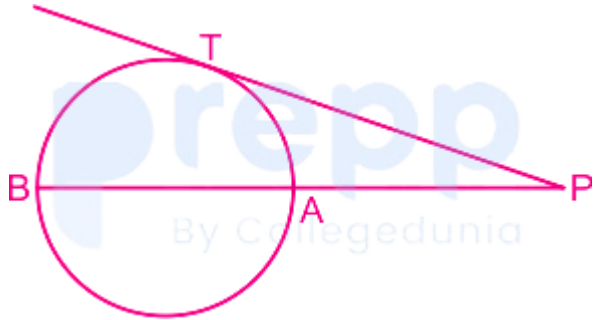
$$\Rightarrow 5\theta = 70^\circ$$

$$\Rightarrow \theta = 14^\circ$$

So, the value of θ is 14°

58. Answer: a

Explanation:



Given, $PT = 5$, $PA = 4$ and $AB = x$

As we know,

$$\Rightarrow PT^2 = PA \times PB$$

$$\Rightarrow 5^2 = 4 \times (4 + x)$$

$$\Rightarrow 25 = 4 \times (4 + x)$$

$$\Rightarrow (x + 4) = 25/4$$

$$\Rightarrow x = 25/4 - 4 = 9/4 = 2.25$$

59. Answer: b

Explanation: Your Personal Exams Guide

Given:

$$\sin^2 38^\circ + \sin^2 52^\circ + \sin^2 30^\circ - \tan^2 45^\circ$$

Data Used:

$$\sin 30^\circ = 1/2$$

$$\tan 45^\circ = 1$$

Calculation:

$$\sin^2 38^\circ + \sin^2 52^\circ + \sin^2 30^\circ - \tan^2 45^\circ$$

$$\Rightarrow \sin^2 38^\circ + \cos^2(90^\circ - 52^\circ) + \sin^2 30^\circ - \tan^2 45^\circ$$

$$\Rightarrow \sin^2 38^\circ + \cos^2 38^\circ + (1/2)^2 - 1^2$$

$$\Rightarrow 1 + (1/4) - 1$$

$$\Rightarrow 1/4$$

60. Answer: b

Explanation:

Average marks of 40 students = 68

Sum of marks of 40 students = $68 \times 40 = 2720$

According to the question

Correct sum of marks of 40 students = $2720 - 48 - 64 + 84 + 46 = 2738$

Correct average marks of 40 students = $2738/40 = 68.45$

Short trick:

$$\Rightarrow 68 + [(84 + 46 - 48 - 64)/40]$$

$$\Rightarrow 68 + [18/40]$$

$$\Rightarrow 68.45$$

61. Answer: b

Explanation:

Let the initial price of sugar be $100x$.

Price of sugar after increased = $100x \times [120/100] = 120x$

Person wants his expenditure increase by 8% only, so his expenditure should be =
 $100x \times [108/100] = 108x$

$\therefore$ Required percentage = $(120x - 108x)/120 \times 100 = 10\%$

62. Answer: d

Explanation:

$$\Rightarrow 4.5 - (3.2 \div 0.8 \times 5) + 3 \times 4 \div 6$$

$$\Rightarrow 4.5 - (4 \times 5) + 3 \times (2/3)$$

$$\Rightarrow 4.5 - 20 + 2$$

$$\Rightarrow 6.5 - 20$$

$$\Rightarrow -13.5$$

63. Answer: b

Explanation:

Given:

$$\tan \theta = 2/3,$$

$$\frac{3\sin\theta - 4\cos\theta}{3\sin\theta + 4\cos\theta}$$

Calculation:

$$\frac{3\sin\theta - 4\cos\theta}{3\sin\theta + 4\cos\theta}$$

Divide by $\cos \theta$

$$\Rightarrow \frac{3\tan\theta - 4}{3\tan\theta + 4}$$

$$= \frac{3 \times \frac{2}{3} - 4}{3 \times \frac{2}{3} + 4}$$

$$= \frac{2-4}{2+4}$$

$$= -2/6$$

$$= -1/3$$

64. Answer: c

Explanation:

Let MP of the article be Rs. x

According to the question

$$\Rightarrow x \times [80/100] \times [88/100] = 528$$

$$\Rightarrow x = 750$$

MP of the article = Rs. 750

65. Answer: d

Explanation:

Given:

The difference between the compound interest and simple interest on Rs. X at 8% per annum for 2 years is Rs. 19.20

Formula used:

Difference between the compound interest and simple interest for 2 years = $PR^2/100 \times 100$

Calculation:

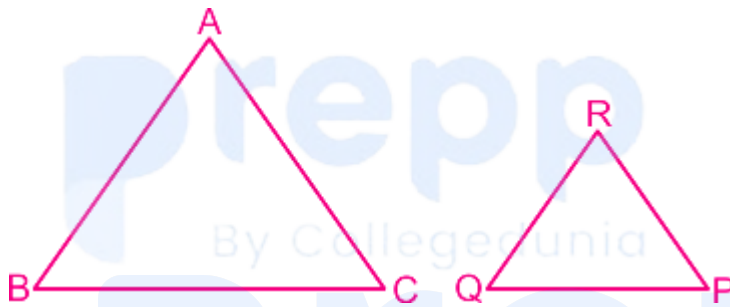
$$P \times 8 \times 8 / 100 \times 100 = 19.20$$

$$\Rightarrow P = 3000$$

$\therefore$ Value of X is Rs 3000.

66. Answer: c

Explanation:



Given, $AB = 4$ cm, $BC = 6$ cm, $AC = 5$ cm

If $\Delta ABC \sim \Delta RQP$

$$\Rightarrow \text{ar}(\Delta ABC) / \text{ar}(\Delta RQP) = BC^2 / PQ^2$$

$$\Rightarrow 9/4 = 6^2 / PQ^2$$

$$\Rightarrow 9/4 = 36 / PQ^2$$

$$\Rightarrow PQ^2 = (36 \times 4) / 9 = 4 \times 4$$

$$\Rightarrow PQ = 4$$

67. Answer: d

Explanation:

SP of each article = Rs. 9720

$$\text{CP of first article} = 9720 \times [100/108] = 9000$$

$$\text{CP of second article} = 9720 \times [100/90] = 10800$$

$$\text{Total SP of both article} = 9720 \times 2 = 19440$$

$$\text{Total CP of both article} = 90000 + 10800 = 19800$$

$$\text{Total loss} = 19800 - 19440 = 360$$

Short trick :

$$\text{Ratio of CP to SP of first article} = 25 : 27$$

$$\text{Ratio of CP to SP of second article} = 10 : 9 \text{ ---- } (1) \times 3$$

Multiply by 3 in equation (1)

$$\text{New ratio of CP to SP of second article} = 30 : 27$$

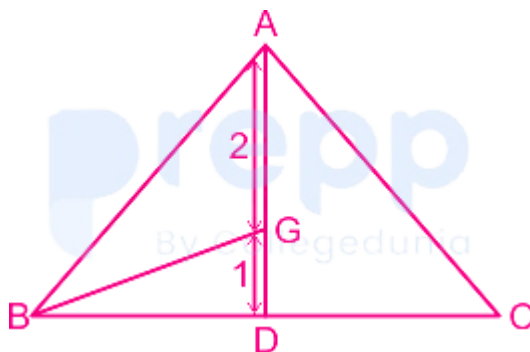
$$\Rightarrow 54 \text{ unit} = 2 \times 9720$$

$$\Rightarrow 1 \text{ unit} = 360$$

68. Answer: d

Explanation:

As we know,



AD is median, so AD divides triangle in two equal part

or $\Delta ADB = \Delta ADC$

In $\triangle ABD$

$$\Rightarrow \text{ar } \triangle BDG / \text{ar } \triangle BGA = DG / AG$$

$$\Rightarrow \text{ar } \triangle BDG / \text{ar } \triangle BGA = 1/2$$

Let the area of $\triangle BDG = 1$ unit

So, area of $\triangle BGA$ will be = 2 unit

So, area of $\triangle BAD = \text{ar } \triangle BDG + \text{ar } \triangle BGA = 1 + 2 = 3$ unit

Area of $\triangle ABC = 2 \times \text{ar } \triangle BAD = 2 \times 3 = 6$ unit

$$\therefore \text{ar } \triangle BDG : \text{ar } \triangle ABC = 1 : 6$$

69. Answer: b

Explanation:

Let efficiency of B be 100

$$\text{Efficiency of A will be} = 100 \times [140/100] = 140$$

$$\text{Efficiency of C will be} = 100 \times [80/100] = 80$$

$$\text{Efficiency ratio of A, B and C} = 140 : 100 : 80 = 7 : 5 : 4$$

$$\text{Total work} = (7 + 5 + 4) \times 5 = 80$$

$$70\% \text{ of total work} = 80 \times [70/100] = 56$$

$$70\% \text{ of total work A will complete in} = 56/7 = 8 \text{ days}$$

70. Answer: a

Explanation:

Divisibility law of 4: A number divisible by 4 if its last 2 digit is divisible by 4

Divisibility law of 11: If the difference of the alternating sum of digits of the number is a multiple of 11 (e.g. 2343 is divisible by 11 because $2 - 3 + 4 - 3 = 0$, which is a multiple of 11).

$\Rightarrow 15x1y2$ is divisible by 4 if $y = 1$ or 3

If $y = 1$, then

$\Rightarrow 15x112$ is divisible by 11 if $x = 6$

If $y = 3$ then

$\Rightarrow 15x132$ is divisible by 11 If $x = 4$

If $y = 1$ and $x = 6$, then

$\Rightarrow x + y = 1 + 6 = 7$

If $y = 3$ and $x = 4$, then

$\Rightarrow x + y = 3 + 4 = 7$

71. Answer: d

Explanation:

$$\Rightarrow x + 1/x = 3$$

As we know,

$$\Rightarrow (x^3 + 1/x^3) = (x + 1/x)^3 - 3(x + 1/x)$$

$$\Rightarrow (x^3 + 1/x^3) = 3^3 - 3 \times 3 = 27 - 9 = 18$$

72. Answer: d

Explanation:

Enrolled students in college A and B in year 2012 = $370 + 250 = 620$

Enrolled students in college D and E in 2013 = $420 + 430 = 850$

$\therefore$ Required ratio = $620 : 850 = 62 : 85$

73. Answer: d**Explanation:**

Total number of students in college D = $430 + 450 + 470 + 420 + 480 = 2250$

Average of students studying in college D = $2250/5 = 450$

74. Answer: a**Explanation:**

Total enrolled students in 2014 = $420 + 290 + 340 + 480 + 480 = 2010$

Enrolled students of college C in 2014 = 340

$\therefore$ Required percentage = $(340/2010) \times 100 = 16.9\%$

75. Answer: b**Explanation:**

Number of students studying in college E in 2013 = 430

Total number of students studying in college B, C and D in 2013 = $310 + 370 + 420 = 1100$

$$\therefore \text{Required percentage} = [430/1100] \times 100 = 39.09\%$$

76. Answer: d

Explanation:

The idiom **square peg in a round hole** is used to describe a person who is a misfit, especially a person unsuited for a position or activity.

For example: *I feel like **a square peg in a round hole** at my office, everyone is so extroverted while I prefer being quiet.*

We can see from the given options that the explanation in **option 4** most closely matches the meaning of the given idiom. It also contextually fits in the sentence because **she**, a rich woman, felt out of place in a poor family and a small village.

Hence, the correct answer is **option 4**.

77. Answer: b

Explanation:

The idiom **smell a rat** is used to describe a situation in which you suspect or realize that something is wrong.

For example: *Though Nakul was acting very suspicious, his teacher still didn't **smell a rat**.*

We can see from the given options that the explanation in **option 2** most closely matches the meaning of the given idiom.

Hence, the correct answer is **option 2**.

78. Answer: c

Explanation:

The word in question should be correctly spelled as: **conscientious**.

It means **the personality trait of being careful, or diligent**.

The word is correctly spelled in **option 3**.

79. Answer: c

Explanation:

The word **vindictive** is an adjective that means **having or showing a strong or unreasoning desire for revenge**.

From the given options, we can see that it is closest in meaning to the word **revengeful**.

Hence, **option 3 is correct**.

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80. Answer: c

Explanation:

The word in question should be correctly spelled as a challenge.

★ Key Points

- **Challenge** means (the situation of being faced with) something that needs great mental or physical effort in order to be done successfully and therefore tests a person's ability ((सामना करने की स्थिति) कुछ ऐसा जिसे सफलतापूर्वक करने के लिए बहुत

मानसिक या शारीरिक प्रयास की आवश्यकता होती है और इसलिए किसी व्यक्ति की क्षमता का परीक्षण करता है।)

- **Example:** It's going to be a difficult job but I'm sure she'll rise to the challenge.

The word is correctly spelled only in option 3.

81. Answer: b

Explanation:

The first sentence of the passage introduces the topic of the passage and stands independently in meaning. This is only true for **sentence D**. The other sentences all refer to concepts not mentioned within them.

Hence, **sentence D is the first sentence.**

The next sentence should be A since it mentions the word **therefore** describing how cloth manufacturers **had to depend** on something. Therefore, the previous sentence must mention a reason for this, which is true for **sentence D** that states that **indigo was expensive**.

The next sentence will be C, since it expands further on the topic of **woad** mentioned in the previous **sentence, A**.

Finally, **the last sentence will be B**.

Therefore, the correct order of sentences is **DACB**.

Hence, **option 2 is correct.**

82. Answer: d

Explanation:

In order to convert the given active sentence into passive:

- The object of the active sentence (**good pictures**) must become the subject. All given options follow this rule.
- The tense (present continuous) must remain the same even active turns into passive. Only **option 4** follows this rule.

Hence, the correct answer is **option 4**.

83. Answer: b

Explanation:

The given sentence is grammatically correct and requires no change. Here are the reasons why:

- **Human activity** is a singular noun and requires a verb in its singular form. Hence, the verb form **means** fits here.
- Also, the context of the sentence suggests that it is a fact pertaining to the present time, hence the past tense form **meant** would not fit here.
- The construction **is meaning** is not a grammatical construction and is hence incorrect.

Therefore, the correct answer is **option 2 i.e. the sentence requires no improvement**.

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84. Answer: d

Explanation:

When describing the quality of an action performed by someone, we use the words **act of** followed by a noun that describes that quality.

For example:

- *An act of cruelty*
- *An act of bravery*

Therefore, in the given context, the correct preposition to be used should be **of** to **describe telling someone something that you admire about them** as an act of **kindness** i.e. a kind act.

Hence, the correct answer is **option 4**.

85. Answer: a

Explanation:

The correct word here should be **effort**.

The context of the given sentence clearly states that complimenting someone pays **enormous dividends** despite requiring almost no activity or attempt from one's side.

Replacing **effort** with any of the other options - **venture, knowledge and result** would not make the same sense.

Hence, the correct answer is **option 1**

86. Answer: b

Explanation:

The correct verb form to fit in the blank here is simple present tense form **spend**.

This is because the sentence is making **a general statement** that applies to the lives of 'many people', both in the past and present. Hence, the past tense forms in **options 1 and 3** don't make sense.

Option 4 is in the present perfect continuous tense (have been spending) and does not fit here either because it denotes an action that started in the past and has continued up to the present moment.

Simple present tense (spend), on the other hand, is used to talk about things that happen regularly.

Hence, **option 2 is correct.**

87. Answer: a

Explanation:

Here are the meanings of the given words:

- **Acknowledge** - to recognise the importance or quality of something or someone
- **Admit** - to confess to be true
- **Concede** - to admit, often unwillingly, that something is true
- **Confess** - to admit that you have done something wrong

The given passage clearly talks about the kindness of telling people what you admire about them. Out of the given words, clearly **acknowledge** best expresses this meaning.

Hence, **option 1 is correct.**

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88. Answer: d

Explanation:

The correct word that fits the blank here is **however**.

This is because this word helps us **make a contrast** between the previous part of the sentence (that we like compliments from friends and family) and the next one (that compliments from strangers can also feel good if they are genuine).

Because and **so** express a cause and effect relationship. **Unless** is used to mean **except**. None of these options help make contextual sense of the sentence.

Therefore, **option 4 is correct.**

89. Answer: a

Explanation:

The word **affinity** means **a liking or sympathy for someone or something.**

Here are the meanings of all the given options:

- Aversion - a feeling of strong dislike or of not wishing to do something
- Preference - the fact that you like something or someone more than another thing
- Attraction - a feeling of liking someone
- **Empathy** - the capacity to understand or feel what another person is experiencing

Out of the given words, we can see that the word **aversion** is completely opposite to the meaning of the word **affinity**.

In fact, the other options are synonyms of the given word.

Hence, **option 1 is correct.**

90. Answer: c

Explanation:

The word pensive means **thinking in a quiet way, often with a serious expression on your face.**

Here are the meanings of all the given options:

- **Tragic** - very sad, often involving death and suffering

- **Spontaneous** – happening or done in a natural, often sudden way, without any planning
- **Reflective**– thinking carefully and quietly
- **Spiteful** – wanting to annoy, upset, or hurt another person

Out of the given words, we can see that only the word **reflective** is similar to the meaning of the word **pensive**.

Hence, option 3 is correct.

91. Answer: c

Explanation:

The word **accept** means to **say yes or to agree to take something**.

Out of the given options, only **reject** is completely opposite in meaning to the given word as it means **to refuse to accept, use, or believe something or someone**.

Hence, option 3 is correct.

92. Answer: a

Explanation:

The word **misconception** means a belief or an idea that is not based on correct information, or that is not understood by people. When used in this context, it is a **countable noun**.

- For example: *There are several common **misconceptions** about the theory of relativity.*

Note that the word is in its **plural form** above. Hence, the given sentence and **option 2 cannot be correct**.

Since it is a countable noun, we cannot use words such as **so much** to quantify the word.

The only option that accurately represents the correct usage of the word **misconception** is option 1.

Hence, **option 1 is correct.**

93. Answer: a

Explanation:

The construction **no sooner...than** is used to represent a situation in which the second event occurs immediately after the first.

For example: ***No sooner** had the teacher left the classroom **than** the children started to scream.*

The use of **when** in the given sentence is, therefore, **incorrect**.

Hence, the error is in the part of the sentence in **option 1.**

94. Answer: a

Explanation:

Out of the given options, **tasty and delicious** are commonly known words that mean **pleasant to the taste**.

Here are the meanings of the other two options:

- **Edible** – fit to be eaten
- **Unpalatable** – unpleasant to taste or eat

Out of these, **edible** clearly fits the meaning of the words provided.

For example: *He might not be a great cook, but at least his food is **edible**.*

Hence, option 1 is correct.

95. Answer: a

Explanation:

The construction **as well as** is used to conjoin two expressions, but it cannot be used in the way that we use **and**. It is used to add an expression with the first one but not to combine them together.

For example, we say: 'My mother **and** father **are** coming to the party'. (The subject becomes plural)

But when we use **as well as** we say: 'My mother, **as well as** my father, **is** coming to the party.' (The subject **my mother** remains singular)

Therefore, in the given sentence, it is inaccurate to use the plural verb form **are** since the subject of the verb is **the captain** i.e. singular.

Hence, the error is in the part of the sentence in **option 1**.

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96. Answer: a

Explanation:

Here are the meanings of all the given options:

- **Incomprehensible**– impossible to understand or comprehend
- **Infallible**– never wrong, failing, or making a mistake
- **Illegible** – not clear enough to be read
- **Inexplicable** – incapable of being explained or interpreted

Out of the given words, we can see that only the word incomprehensible fits the meaning of the given words.

Hence, option 1 is correct.

97. Answer: b

Explanation:

The first sentence of the passage introduces the theme or topic of the passage and stands independently in meaning. This is only true for **sentence B**. The other sentences all either elaborate on another topic or refer to concepts not mentioned within them.

Hence, sentence B is the first sentence.

The next sentence will be D since it offers an example (Puducherry) as well as direct a point of contrast (There is a place though) from the idea discussed in B.

The next sentence will be A. It directly expands on the topic of Puducherry that was first mentioned in the previous sentence.

The last sentence should be C since it elaborates on the theme of conflict of coexistence introduced in sentence B.

Therefore, the correct order of sentences is BDAC.

Hence, option 2 is correct.

98. Answer: a

Explanation:

The correct answer is **Ring the bell every forty minutes**.

Here's why:

The given sentence is an imperative sentence in the passive voice. A sentence that expresses a wish, command or request is called an imperative sentence.

In order to change an imperative sentence from passive to active voice, we must:

- Drop the word **let**.
- Use the present form(**ring**)of the word in an active instead of the past participle (**rung**) in passive.
- Drop the word **be** '

Only the sentence in option 1 follows these rules.

Hence, **option 1 is correct.**

99. Answer: a

Explanation:

Here are the meanings of all the given options:

- **Addictive** – an activity or substance likely to get someone unhealthily attached or obsessed with it
- **Contagious**– (of a disease) spread from one person or organism to another
- **Infatuated** – having a very strong but not usually lasting feeling of love or attraction towards someone
- **Incorrigible** – incapable of being corrected or amended

In the context of the sentence, technology is described as something that people seem likely to get irrationally attached to. Hence, of all the given options, it can best be described as **addictive**.

Therefore, **option 1 is correct.**

100. Answer: b

Explanation:

From the context of the sentence, we see that the word in the blank needs to be combined with the preposition **over** to convey a meaning of longingly thinking about past experiences.

The words **remember** and **remind** can't be combined with **over** to convey this meaning.

The word **retribute** means **to pay back or give in return** and hence is contextually wrong.

The word **reminisce**, however, can be combined with the preposition **over** to mean **indulge in enjoyable recollections of past events**.

Hence, **option 2 is correct**.

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