



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



UP TET



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 (04-Jun-2019) (Shift 1)

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

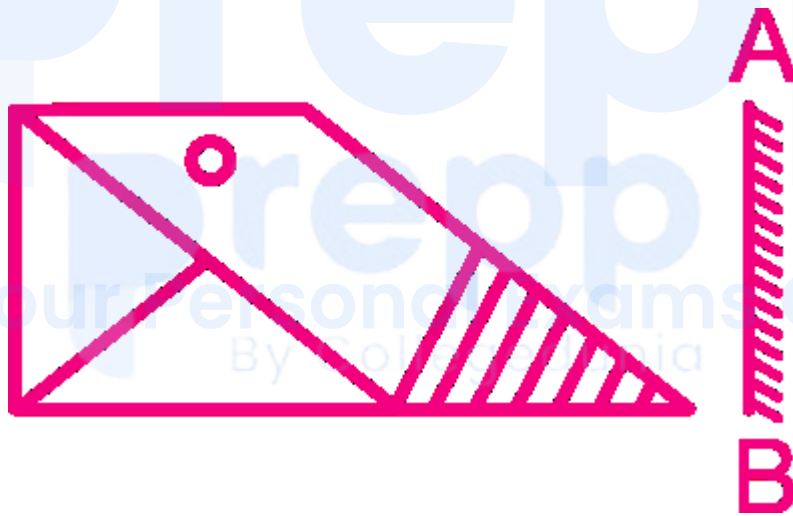
- 1.) A total of 60 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper 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.

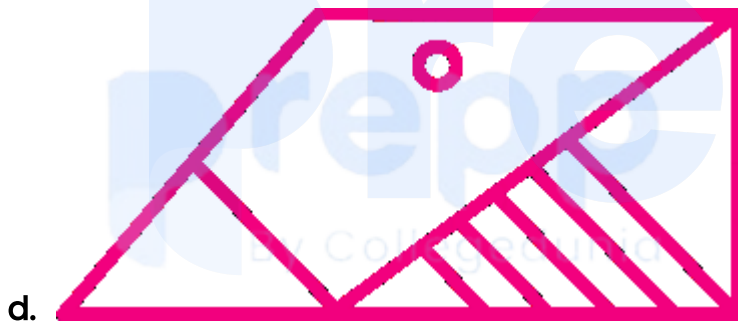
General Intelligence and Reasoning

1. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest. (+2, -0.5)

- a. 254
- b. 217
- c. 126
- d. 189

2. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure. (+2, -0.5)





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3. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series. (+2, -0.5)

b_bab_bc_abbb_ba_b

- a. cbbcb
- b. cbabc
- c. cbbac
- d. bcbab

4. In a code language, VICTORY is written as CIVSYRO. How will TRAITOR be written as in that language? (+2, -0.5)

- a. RTAJORT
- b. ARTHROT
- c. RATHORT
- d. ARTJOTR

5. 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. CFIL
- b. PSUX
- c. MOQS
- d. GHIJ

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

CEGI : AGEK :: DFHJ : ?

- a. CGIK
- b. BDJK
- c. CHFI
- d. BHFL

7. A paper is folded and cut as shown below. How will it appear when unfolded?

(+2, -0.5)



8. Which two signs should be interchanged in the following equation to make it correct?

(+2, -0.5)

$$12 - 8 + 12 \times 9 \div 3 = 9$$

a. + and ÷

b. + and ×

c. + and -

d. – and ÷

-
9. Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements 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)

Comments :

All rulers are machines.

Some machines are costly items.

Conclusions :

I. Some rulers are costly items.

II. Some costly items are machines.

III. All costly items are machines.

a. Both conclusions II and III follow

b. Both conclusions I and II follow

c. Only conclusion II follows

d. Only conclusion I follows

-
10. If DIG is coded as 25 and CUT is coded as 49, then how will KICK be coded as? (+2, -0.5)

a. 39

b. 34

c. 41

d. 43

11. Select the set in which the numbers are related in the same way as are the numbers of the following set. (+2, -0.5)

(9, 35, 16)

a. (81, 65, 36)

b. (36, 55, 25)

c. (25, 30, 4)

d. (16, 50, 64)

12. Which number will replace the question mark (?) in the following series? (+2, -0.5)

3, 7, 16, 35, ?, 153

a. 74

b. 63

c. 84

d. 78

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

1. Buy

2. Dinner

3. Market

4. Vegetables

5. Cook

a. 4, 5, 3, 1, 2

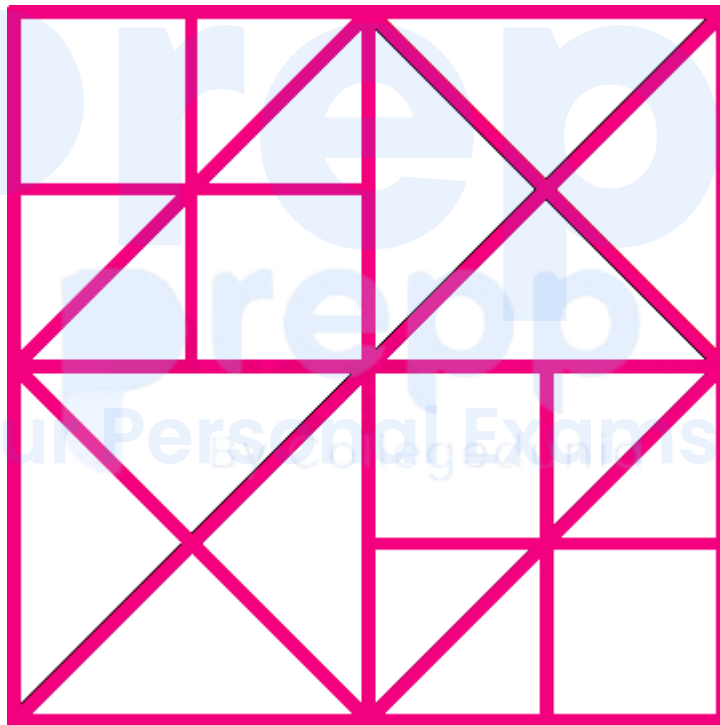
b. 3, 4, 1, 5, 2

c. 3, 5, 4, 1, 2

d. 1, 4, 5, 3, 2

14. How many squares are there in the following figure?

(+2, -0.5)



a. 12

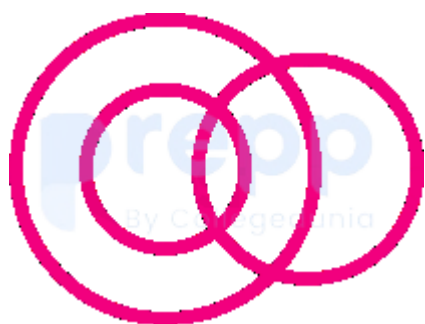
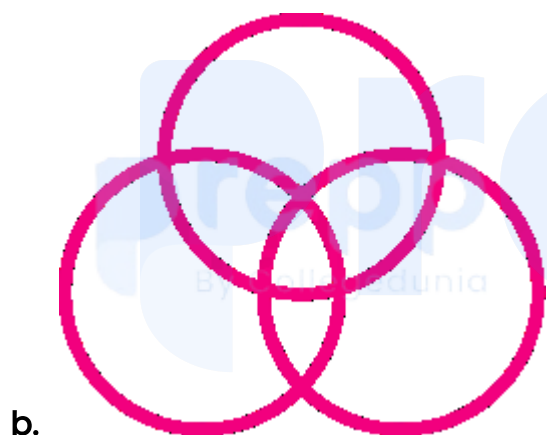
b. 16

c. 14

d. 13

15. Select the Venn diagram that best illustrates the relationship between the following classes. (+2, -0.5)

Uncle, Relatives, Rich

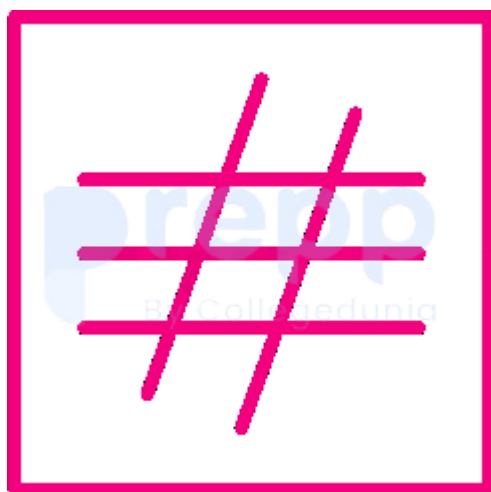
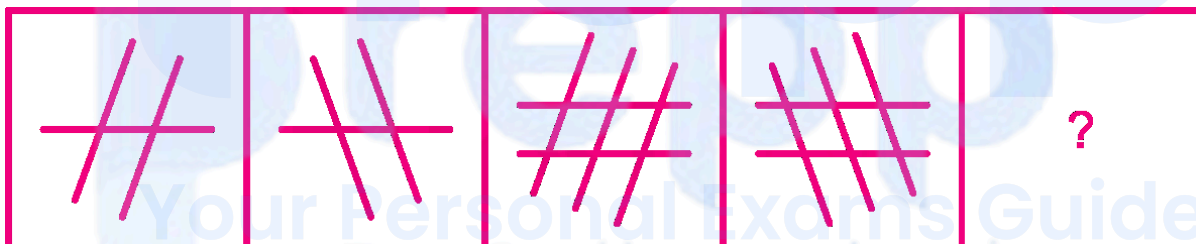


d.

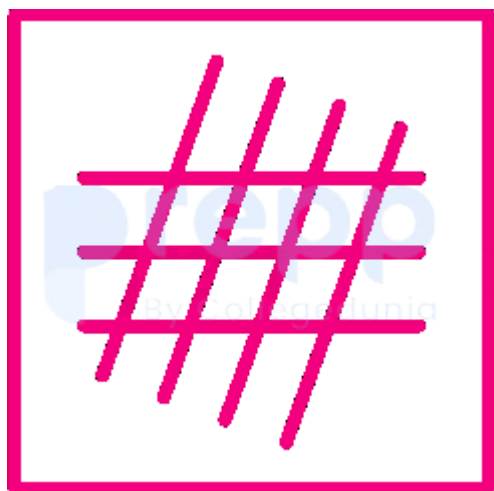
16. Rs. 1,875 is divided among A, B and C in such a way that A's share is half of the combined share of B and C, and B's share is one-fourth of the combined share of A and C. By what amount is C's share more than that of A? (+2, -0.5)

- a. Rs. 500
- b. Rs. 250
- c. Rs. 200
- d. Rs. 225

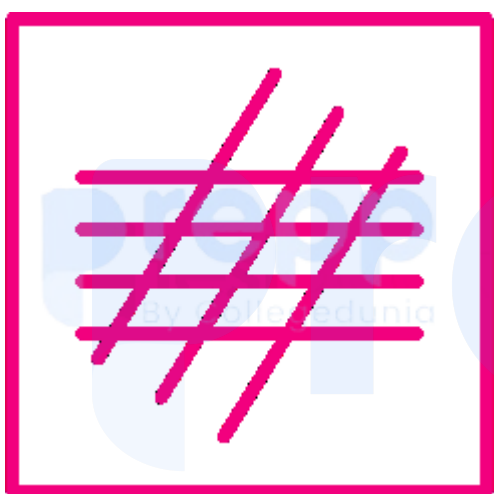
17. Select the figure that will come next in the following figure series. (+2, -0.5)



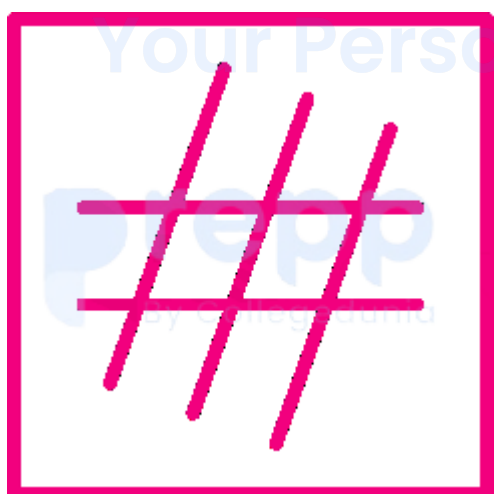
a.



b.



c.



d.

18. 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. Fennel
- b. Groundnut
- c. Mustard
- d. Cumin

19. Select the set in which the numbers are related in the same way as are the numbers of the following set. (+2, -0.5)

(3, 24, 4)

- a. (6, 35, 11)
- b. (2, 30, 8)
- c. (4, 72, 9)
- d. (12, 84, 4)

20. In a family of eight persons, there are two couples, each having two children. B and D are brothers, and each has two children. E is the aunt of A, who is the cousin brother of C. C is the sister of H, who is the cousin brother of G. F is the wife of B. How is H related to F? (+2, -0.5)

- a. Son-in-law
- b. Nephew
- c. Brother-in-law

d. Son

21. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair. (+2, -0.5)

36 : 84

a. 21 : 51

b. 57 : 135

c. 27 : 63

d. 45 : 95

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

Book : Thesaurus

a. Reptile : Python

b. Furniture : Wood

c. Tree : Forest

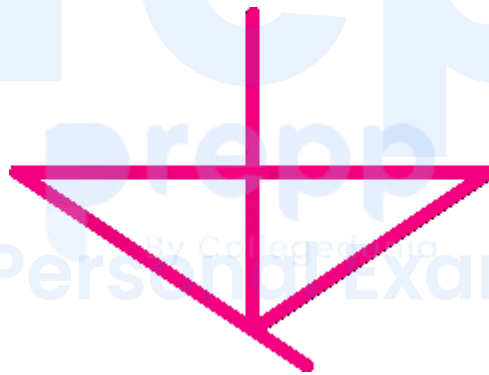
d. Tennis : Ball

23. Two different positions of the same dice are shown. Which number will be at the top if 6 is at the bottom? (+2, -0.5)



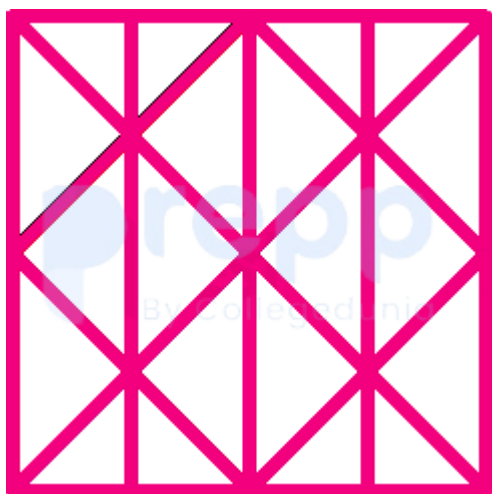
- a. 5
- b. 3
- c. 4
- d. 2

24. Select the option in which the given figure is embedded. (Rotation not allowed) (+2, -0.5)

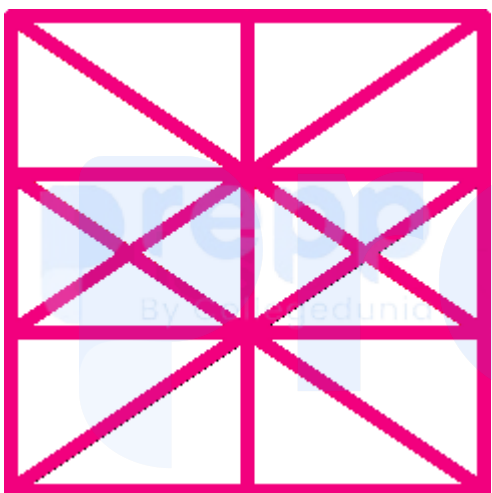


a.

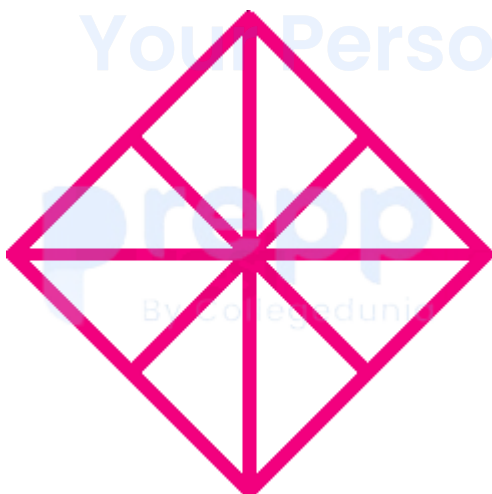
b.



c.



d.



25. 'Lawyer' is related to 'Justice' in the same way as 'Arbitrator' is related to (+2, -0.5)
'-----'.

- a. Communication
- b. Injustice
- c. Settlement
- d. Judgment

Prepp

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General Awareness

26. Who is the first female Director General of Police in Puducherry? (+2, -0.5)
- a. Kiran Bedi
 - b. Kanchan Choudhary
 - c. Sundari Nanda
 - d. Aswathy Tonge
-
27. The _____ edition of the India-Indonesia coordinated patrol (IND-INDO CORPAT) held from 19 March to 4th April 2019 was inaugurated at Port Blair, Andaman and Nicobar Islands. (+2, -0.5)
- a. 33rd
 - b. 45th
 - c. 42nd
 - d. 23rd
-
28. The Indian National Association was established in 1876 by _____ in Calcutta (+2, -0.5)
- a. Badruddin Tyabji
 - b. Sisir Kumar Ghosh
 - c. V. K. Chiplunkar
 - d. Anand Mohan Bose

29. According to The Economist Intelligence Unit report 'Worldwide Cost of Living Survey 2019', which of the following is NOT one of the three cheapest cities in India? (+2, -0.5)

- a. New Delhi
- b. Mumbai
- c. Bengaluru
- d. Chennai

30. Who attacked and looted the famous Somnath temple in 1025 AD? (+2, -0.5)

- a. Muhammad Gori
- b. Mahmud of Ghazni
- c. Genghis Khan
- d. Nadir Shah

31. Which gas in its solid state is also known as dry ice? (+2, -0.5)

- a. Nitrogen
- b. Oxygen
- c. Hydrogen
- d. Carbon dioxide

32. The lone gold medal for India was won by _____ at the 38th GeeBee Boxing Tournament held at Helsinki, Finland. (+2, -0.5)

- a. Shiva Thapa
- b. Naveen Kumar
- c. Mohammed Hussamuddin
- d. Kavinder Singh Bisht

33. Which country was the first to implement Goods and Services Tax (GST)? (+2, -0.5)

- a. Canada
- b. Germany
- c. USA
- d. France

34. The Malimath Committee Report deals with: (+2, -0.5)

- a. criminal justice system reforms
- b. textile sector reforms
- c. stock market reforms
- d. judicial delays

35. Which queen died fighting Mughal armies while defending Garha Katanga in 1564? (+2, -0.5)

- a. Rani Ahilyabai
 - b. Rani Rudrambara
 - c. Rani Avantibai
 - d. Rani Durgavati
-

36. The Musi and Bhima are tributaries of the river _____. (+2, -0.5)

- a. Brahmaputra
 - b. Mahanadi
 - c. Krishna
 - d. Kaveri
 - e. Question Not Attempted
-

37. The Tata Iron and Steel company (TISCO) was established by Dorabji Tata in: (+2, -0.5)

- a. 1911
 - b. 1919
 - c. 1913
 - d. 1907
-

38. Which of the following places was ruled by the Wadiyar dynasty? (+2, -0.5)

- a. Jabalpur

- b.** Patna
 - c.** Guwahati
 - d.** Mysore
-

39. The Olympic Council of Asia (OCA) has decided to reintroduce _____ in the 2022 Asian Games to be held at Hangzhou, China after it was dropped in 2018. **(+2, -0.5)**

- a.** volleyball
 - b.** soccer
 - c.** fencing
 - d.** cricket
-

40. _____ dance, performed by Buddhists to ward off evil spirits, is a dance form of Himachal Pradesh. **(+2, -0.5)**

- a.** Chham
 - b.** Dham
 - c.** Gogra
 - d.** Natya
-

41. Sundari, a well known species of trees, is found in: **(+2, -0.5)**

- a.** himalayan mountains
- b.** tropical deciduous forests

- c. mangrove forests
 - d. tropical rainforests
-

42. The property of catenation is predominant in _____. (+2, -0.5)

- a. sulphur
 - b. carbon
 - c. silicon
 - d. nitrogen
-

43. Methyl propane is an isomer of: (+2, -0.5)

- a. n-hexane
 - b. n-pentane
 - c. n-propane
 - d. n-butane
-

44. Which of the following elements is a metalloid? (+2, -0.5)

- a. Silicon
 - b. Tin
 - c. Bismuth
 - d. Phosphorus
-

45. In March 2019, _____ was sworn in as the new chief minister of Goa, (+2, -0.5) following the demise of Manohar Parrikar.

- a. Ashok Gehlot
- b. Vasundhara Raje
- c. H. D. Kumaraswamy
- d. Pramod Sawant

46. Name the first ever judge of the Supreme Court against whom the motion (+2, -0.5) of impeachment was introduced into Parliament in Independent India.

- a. Justice Mahajan
- b. Justice Subba Rao
- c. Justice Viraswami
- d. Justice Ramaswami

47. 'Thoda' a sport dance belongs to which of the following states? (+2, -0.5)

- a. Andhra Pradesh
- b. Haryana
- c. Himachal Pradesh
- d. Sikkim

48. J. J. Thomson received the Nobel Prize in Physics for the discovery of ----- (+2, -0.5)

- a. electrons
- b. positrons
- c. protons
- d. neutrons

49. Which of the following is mined in the Badampahar mines of Odisha? (+2, -0.5)

- a. Dolomite
- b. Azurite
- c. Hematite
- d. Bauxite

50. ----- is the founder of Facebook. (+2, -0.5)

- a. Larry Page
- b. Jimmy Wales
- c. Brian Acton
- d. Mark Zuckerberg

Quantitative Aptitude

51. The value of $2 \times 3 \div 2$ of $3 \times 2 \div (4 + 4 \times 4 \div 4$ of $4 - 4 \div 4 \times 4)$ is: (+2, -0.5)

- a. 2
- b. 8
- c. 1
- d. 4

52. The average of twelve numbers is 42. The average of the last five numbers is 40, and that of the first four numbers is 44. The 6th number is 6 less than the fifth and 5 less than the 7th number. The average of the 5th and the 7th numbers is: (+2, -0.5)

- a. 43.5
- b. 43
- c. 44
- d. 44.5

53. If $4 - 2\sin^2\theta - 5\cos\theta = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\sin\theta + \tan\theta$ is: (+2, -0.5)

- a. $(3\sqrt{2})/2$
- b. $(3\sqrt{3})/2$
- c. $3\sqrt{2}$
- d. $2\sqrt{3}$

54. If a nine-digit number $985x3678y$ is divisible by 72, then the value of $(4x - 3y)$ is: (+2, -0.5)

- a. 3
- b. 5
- c. 6
- d. 4

55. If $\sin \theta = \frac{P^2-1}{P^2+1}$, then $\cos \theta$ is equal to: (+2, -0.5)

- a. $\frac{2P}{1+P^2}$
- b. $\frac{P}{P^2-1}$
- c. $\frac{P}{1+P^2}$
- d. $\frac{2P}{P^2-1}$

56. If decreasing 120 by $x\%$ gives the same result as increasing 40 by $x\%$, then $x\%$ of 210 is how much percent less than $(x + 20)\%$ of 180? (+2, -0.5)

- a. 18
- b. $33\frac{1}{3}$
- c. 20
- d. $16\frac{2}{3}$

57. A solid cube of volume 13824 cm^3 is cut into 8 cubes of equal volumes. (+2, -0.5)
The ratio of the surface area of the original cube to the sum of the surface areas of three of the smaller cubes is:

- a. 8 : 3
- b. 2 : 3
- c. 4 : 3
- d. 2 : 1

58. If $x^4 + x^{-4} = 194$, $x > 0$, then the value of $(x - 2)^2$ is: (+2, -0.5)

- a. 3
- b. 6
- c. 2
- d. 1

59. In $\triangle ABC$, F and E are the points on sides AB and AC, respectively, such that $FE \parallel BC$ and FE divides the triangle in two parts of equal area. If $AD \perp BC$ and AD intersects FE at G, Find $GD : AG$. (+2, -0.5)

- a. $(\sqrt{2} + 1) : 1$
- b. $\sqrt{2} : 1$
- c. $2\sqrt{2} : 1$
- d. $(\sqrt{2} - 1) : 1$

60. If $x + y + z = 19$, $x^2 + y^2 + z^2 = 133$ and $xz = y^2$, then the difference between z and x is: (+2, -0.5)

- a. 5
- b. 4
- c. 3
- d. 6

61. A circle is inscribed in a triangle ABC. It touches the sides AB, BC and AC at the points R, P and Q respectively. If $AQ = 4.5$ cm, $PC = 5.5$ cm and $BR = 6$ cm, then the perimeter of the ΔABC is: (+2, -0.5)

- a. 28 cm
- b. 26.5 cm
- c. 32 cm
- d. 30.5 cm

62. The table shows the production of different types of cars (in thousands). (+2, -0.5)

Cars/Year	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

What is the ratio of the total production of cars of type A in 2014 and type C in 2013 taken together to the total production of cars of type B in 2016 and type E in 2015 taken together?

- a. 12 : 13
- b. 12 : 11
- c. 10 : 11
- d. 11 : 12

63. The table shows the production of different types of cars (in thousands). (+2, -0.5)

Cars/Year	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

Find the number of years, in which the production of cars of type B is less than the average production of type D cars over the years.

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

64. The table shows the production of different types of cars (in thousands). (+2, -0.5)

Cars/Year	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

The total production of type B cars in 2012, 2014 and 2015 taken together is approximately what percent more than the total production of type A cars in 2013 and 2016 taken together?

- a. 33.2%
- b. 31.9%
- c. 34.4%
- d. 36.3%

65. In a $\triangle ABC$, the bisectors of $\angle B$ and $\angle C$ meet at point O, inside the triangle. If $\angle BOC = 122^\circ$, then the measure of $\angle A$ is: (+2, -0.5)

- a. 72°

b. 64°

c. 62°

d. 68°

66. The table shows the production of different types of cars (in thousands). (+2, -0.5)

Cars/Year	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

If the data related to the production of cars of type E is represented by a pie chart, then the central angle of the sector representing the data of production of cars in 2013 will be:

a. 84°

b. 102°

c. 70°

d. 80°

67. A person sold an article at a loss of 15%. Had he sold it for Rs. 30.60 more, he would have gained 9%. To gain 10%, he should have sold it for: (+2, -0.5)

a. Rs. 140.25

b. Rs. 132

c. Rs. 128.40

d. Rs. 130

68. The ratio of the efficiencies of A, B and C is 2 : 5 : 3. Working together, they can complete a work in 27 days. B and C together can complete $\frac{4}{9}^{\text{th}}$ part of that work in: (+2, -0.5)

a. 15 days

b. $17\frac{1}{7}$ days

c. 24 days

d. 27 days

69. A sum amounts to Rs. 8,028 in 3 years and to Rs. 12,042 in 6 years at a certain rate percent per annum, when the interest is compounded yearly. Find the sum. (+2, -0.5)

a. Rs. 5,352

b. Rs. 5,253

c. Rs. 5,325

d. Rs. 5,235

70. After giving two successive discounts, each of $x\%$, on the marked price of an article, the total discount is Rs. 259.20. If the marked price of the article is Rs. 720, then the value of x is: (+2, -0.5)

a. 18

b. 24

c. 20

d. 25

71. $\frac{2+\tan^2\theta+\cot^2\theta}{\sec\theta\operatorname{cosec}\theta}$ is equal to: (+2, -0.5)

a. $\sec\theta\operatorname{cosec}\theta$

b. $\cos\theta\sin\theta$

c. $\tan\theta$

d. $\cot\theta$

72. The ratio of the ages of A and B, four years ago, was 4 : 5. Eight years from now, the ratio of the ages of A and B will be 11 : 13. What is the sum of their present ages? (+2, -0.5)

a. 76 years

b. 96 years

c. 80 years

d. 72 years

73. A truck covers a distance of 384 km at a certain speed. If the speed is decreased by 16 km/h, it will take 2 hours more to covers the same distance. 75% of its original speed (in km/h) is: (+2, -0.5)

- a. 42
- b. 45
- c. 48
- d. 54

74. If $(5\sqrt{5}x^3 - 81\sqrt{3}y^3) \div (\sqrt{5}x - 3\sqrt{3}y) = (Ax^2 + By^2 + Cxy)$, then the value of $(6A + B - \sqrt{15}C)$ is: (+2, -0.5)

- a. 12
- b. 15
- c. 9
- d. 10

75. In a circle of radius 10 cm, with centre O, PQ and PR are two chords each of length 12 cm. PO bisects chord QR at the points S. The length of OS is: (+2, -0.5)

- a. 2.5 cm
- b. 3.2 cm
- c. 3 cm
- d. 2.8 cm

English Comprehension

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

SCARCE

- a. Seldom
- b. Few
- c. Plentiful
- d. Scanty

77. 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)

Seoul's city government is asking people for help to correct poorly translated street signs with prizes on offer for (1) _____ who spot the most errors. It's running (2) _____ two-week campaign calling on Koreans and foreigners (3) _____ to keep their eyes peeled for (4) _____ in English, Japanese and Chinese text, the Korea Times reports. There's a (5) _____ focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital.

Select the most appropriate option for blank No. 3.

- a. likely
- b. similarly
- c. same
- d. alike

78. Select the wrongly spelt word.

(+2, -0.5)

- a. calander
 - b. callous
 - c. carriage
 - d. career
-

79. Select the most appropriate synonym of the given word.

(+2, -0.5)

COERCE

- a. cajole
 - b. leave
 - c. enchant
 - d. pressurize
-

80. Select the most appropriate meaning of the given idiom.

(+2, -0.5)

At daggers drawn

- a. bitterly hostile
 - b. without hope
 - c. deceiving somebody
 - d. friendly with each other
-

81. 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)

If you park your car here, the traffic police has fined you.

- a. will fine you
- b. fined you
- c. No improvement
- d. have fined you

82. Select the most appropriate meaning of the given idiom. (+2, -0.5)

To play ducks and drakes

- a. to be friendly
- b. to act cleverly
- c. to behave recklessly
- d. to change places

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

Do not buy medicines without the doctor's prescription.

- a. Medicines need not be bought without the doctor's prescription
- b. Medicines could not be bought without the doctor's prescription
- c. Medicines should not be bought without the doctor's prescription
- d. Medicines might not be bought without the doctor's prescription

84. Select the most appropriate antonym of the given word.

(+2, -0.5)

EXPANSION

- a. inflation
- b. extension
- c. compression
- d. augmentation

85. Given below are four jumbled sentences. Select the option that gives their correct order.

(+2, -0.5)

- A. The cafe's owner says he's interested in conservation, and hopes customers will realise the animals are worth saving, even though they often have a bad reputation.
- B. None of them are venomous, meaning customers can get up close and personal with the reptiles.
- C. Here you sip your drink in the company of 35 snakes.
- D. This cafe, which has just opened up in Tokyo, is not for the faint of heart.

- a. ABCD
 - b. DBCA
 - c. DCBA
 - d. ABDC
-

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.

Seoul's city government is asking people for help to correct poorly translated street signs with prizes on offer for (1) _____ who spot the most errors. It's running (2) _____ two-week campaign calling on Koreans and foreigners (3) _____ to keep their eyes peeled for (4) _____ in English, Japanese and Chinese text, the Korea Times reports. There's a (5) _____ focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital.

Select the most appropriate option for blank No. 4.

- a. blunder
- b. oversight
- c. mistakes
- d. guffaws

Your Personal Exams Guide

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

We had to decline several orders in case that the production was held up due to labour strike.

- a. We had to decline
- b. in case that
- c. the production was held up
- d. due to labour strike

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)

Seoul's city government is asking people for help to correct poorly translated street signs with prizes on offer for (1) _____ who spot the most errors. It's running (2) _____ two-week campaign calling on Koreans and foreigners (3) _____ to keep their eyes peeled for (4) _____ in English, Japanese and Chinese text, the Korea Times reports. There's a (5) _____ focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital.

Select the most appropriate option for blank No. 1.

- a. these
- b. this
- c. those
- d. that

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

- A. An environmental group performed a necropsy on the animal and found about 40 kilograms of plastic, including grocery bags and rice sacks.
- B. A 4.7-metre long whale died on Saturday in Phillipines where it was stranded a day earlier.
- C. "It' s very disgusting and heartbreaking," he said. "We've done necropsies on 61 dolphins and whales in the last 10 years and this is one of

the biggest amounts of plastic we've seen."

D . "The animal died from starvation and was unable to eat because of the trash filling its stomach," said Darrell Blatchley, Director of D' Bone Collector Museum Inc..

- a. DABC
- b. BADC
- c. ABCD
- d. BACD

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

CHRONIC

- a. ordinary
- b. persistent
- c. common
- d. temporary

91. Select the wrongly spelt word. (+2, -0.5)

- a. explicit
- b. expire
- c. explode
- d. exploite

92. Select the option that can be used as a one-word substitute for the given group of words/phrases. (+2, -0.5)

A person, animal or plant much below the usual height

- a. wizard
- b. creature
- c. witch
- d. dwarf

93. Select the most appropriate word to fill in the blank. (+2, -0.5)

His company has the _____ of producing the best cricket balls in the country.

- a. opinion
- b. reputation
- c. brand
- d. position

94. Select the option that can be used as a one-word substitute for the given group of words/phrases. (+2, -0.5)

A student who idly or without excuse absents himself/herself from school

- a. vagrant
- b. migrant

c. itinerant

d. truant

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

Cyclone Idai killed at least 157 people in Zimbabwe and Mozambique although it tore across Southern Africa.

a. it tore across

b. Cyclone Idai killed

c. although

d. at least 157 people

96. Select the correct active form of the given sentence. (+2, -0.5)

Every passing vehicle was being thoroughly checked by the guards.

a. The guards were thoroughly checking every passing vehicle.

b. The guards have thoroughly checked every passing vehicle.

c. The guards have thoroughly checking every passing vehicle.

d. The guards had been thoroughly checking every passing vehicle.

97. 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)

Seoul's city government is asking people for help to correct poorly translated street signs with prizes on offer for (1) _____ who spot the most errors. It's running (2) _____ two-week campaign calling on Koreans and foreigners (3) _____ to keep their eyes peeled for (4) _____ in English, Japanese and Chinese text, the Korea Times reports. There's a (5) _____ focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital.

Select the most appropriate option for blank No. 5.

- a. important
- b. particular
- c. signifying
- d. meticulous

98. Select the most appropriate word to fill in the blank.

(+2, -0.5)

Around sixty bands in colourful _____ took part in the Notting Hill Carnival.

- a. dressing
- b. apparels
- c. clothings
- d. costumes

99. 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)

The workers of this textile factory demand higher wages for a long time.

- a. No improvement
- b. demanded higher wages
- c. has demanded higher wages
- d. have been demanding higher wages

100. 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.

Seoul's city government is asking people for help to correct poorly translated street signs with prizes on offer for (1) _____ who spot the most errors. It's running (2) _____ two-week campaign calling on Koreans and foreigners (3) _____ to keep their eyes peeled for (4) _____ in English, Japanese and Chinese text, the Korea Times reports. There's a (5) _____ focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital.

Select the most appropriate option for blank No. 2.

- a. one
- b. a
- c. an
- d. the

Answers

1. Answer: a

Explanation:

The pattern followed is:

Except the number 254, all other numbers are completely divisible by 7.

Option 1: 254 is not completely divisible by 7.

$$254 \div 7 = 36.28.$$

Option 2: 217 is completely divisible by 7.

$$217 \div 7 = 31.$$

Option 3: 126 is completely divisible by 7.

$$126 \div 7 = 18.$$

Option 4: 189 is completely divisible by 7.

$$189 \div 7 = 27.$$

Hence, the correct answer is "254".

★ Alternate Method

$(1^{\text{st}} \text{ term} + 1) \times 3^{\text{rd}} \text{ term} = \text{first two terms}$

$$217 \rightarrow (2 + 1) \times 7 = 21$$

$$126 \rightarrow (1 + 1) \times 6 = 12$$

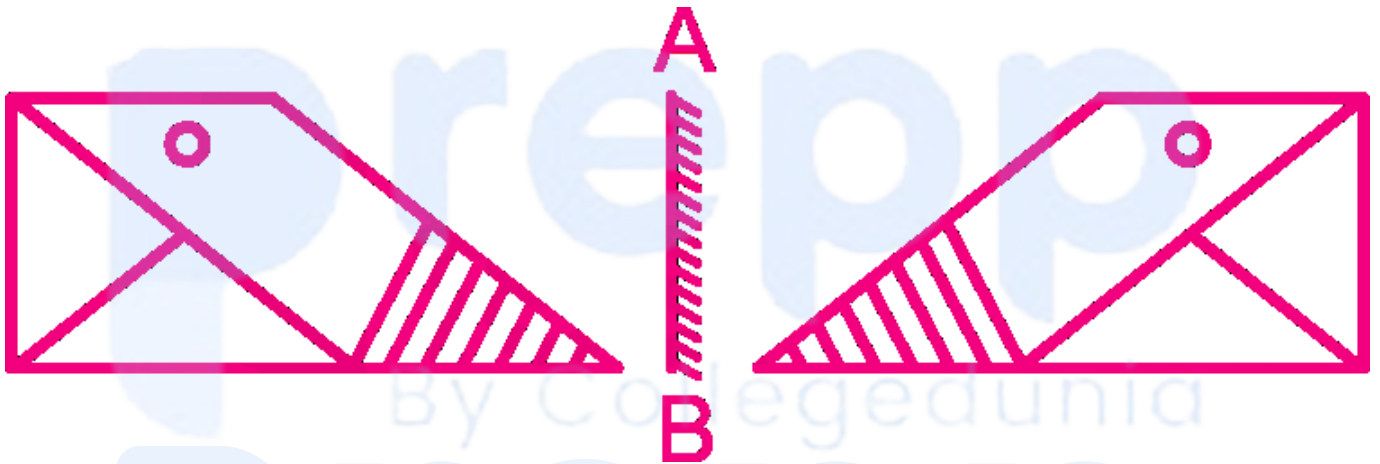
$$189 \rightarrow (1 + 1) \times 9 = 18$$

$$254 \rightarrow (2 + 1) \times 4 = 12 \neq 25$$

Hence, 254 is odd among given numbers.

2. Answer: c

Explanation:



Hence 3 is correct answer.

3. Answer: a

Explanation:

Pattern followed is:

" b c b a b b " is a repeating term in the series.

Complete series is b c b a b b | b c b a b b | b c b a b b

Hence c b b c b will complete the series.

4. Answer: b

Explanation:

Pattern followed is:



Similarly



Hence, ARTHROT is the correct answer.

5. Answer: b

Explanation: Your Personal Exams Guide

Pattern followed is:

$$C + 3 = F, F + 3 = I, I + 3 = L$$

$$P + 3 = S, S + 2 = U, U + 3 = X$$

$$M + 2 = O, O + 2 = Q, Q + 2 = S$$

$$G + 1 = H, H + 1 = I, I + 1 = J$$

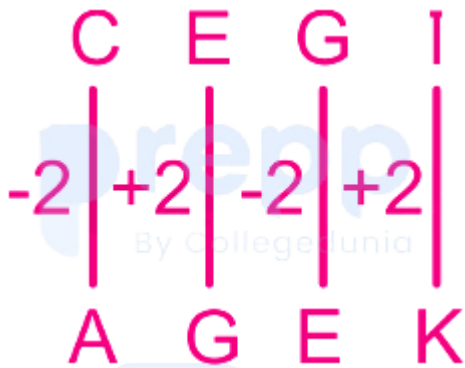
Difference between letters is not constant in PSUX.

Hence, PSUX is the correct answer.

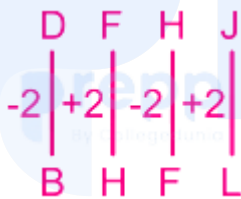
6. Answer: d

Explanation:

Pattern followed is:



Similarly,



Hence, correct answer is BHFL.

7. Answer: c

Explanation:



Hence, option 3 is the correct answer.

8. Answer: a

Explanation:

Concepts of BODMAS rule:

- BODMAS has to be used when there is more than one operation in a mathematical expression. There is a sequence of certain rules that need to be followed when using the BODMAS method.

Conditions to follow:

- If there is any bracket, open the bracket, then add or subtract the terms. $a + (b + c) = a + b + c$, $a + (b - c) = a + b - c$
- If there is a negative sign just open the bracket, multiply the negative sign with each term inside the bracket. $a - (b + c) \Rightarrow a - b - c$
- If there is any term just outside the bracket, multiply that outside term with each term inside the bracket. $a(b + c) \Rightarrow ab + ac$

Remember BODMAS Rule:

One easy way to remember the BODMAS rule is to perform these steps:

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Checking each option one by one:

Interchanging + and ÷

$$12 - 8 \div 12 \times 9 + 3 = 12 - \frac{2}{3} \times 9 + 3$$

$$12 - 6 + 3 = 9$$

Interchanging + and $\times$

$$12 - 8 \times 12 + 9 \div 3 = 12 - 96 + 3$$

$$15 - 96 \neq 9$$

Interchanging + and $-$

$$12 + 8 - 12 \times 9 \div 3 = 12 + 8 - 12 \times 3$$

$$20 - 36 \neq 9$$

Interchanging $-$ and $\div$

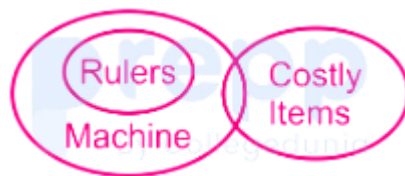
$$12 \div 8 + 12 \times 9 - 3 = \frac{3}{2} + 108 - 3$$

$$\frac{3}{2} + 105 \neq 9$$

Hence, by interchanging + and $\div$ we get the correct equation.

9. Answer: c

Explanation:



Some rulers are costly items $\rightarrow$ False (It is a possibility but not definite)

Some costly items are machines $\rightarrow$ True

All costly items are machines $\rightarrow$ False (It is a possibility but not definite)

Hence, only conclusion II follows.

10. Answer: a

Explanation:

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

DIG $\rightarrow D = 4, I = 9, G = 7 \rightarrow 4 + 9 + 7 = 20, 20 + 5 = 25$

CUT $\rightarrow C = 3, U = 21, T = 20 \rightarrow 3 + 21 + 20 = 44, 44 + 5 = 49$

Similarly,

KICK $\rightarrow K = 11, I = 9, C = 3, K = 11 \rightarrow 11 + 9 + 3 + 11 = 34, 34 + 5 = 39$

Hence, 39 is the correct answer.

11. Answer: b

Explanation:

Pattern followed is:

$$(\sqrt{1^{\text{st}}} + \sqrt{3^{\text{rd}}}) \times 5 = 2^{\text{nd}} \text{ term}$$

$$(\sqrt{9} + \sqrt{16}) \times 5 = (3 + 4) \times 5 = 35$$

Similarly,

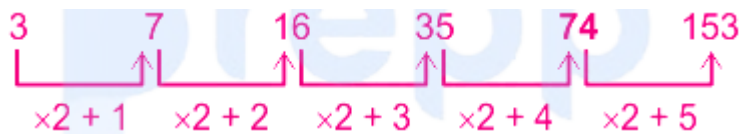
$$(\sqrt{36} + \sqrt{25}) \times 5 = (6 + 5) \times 5 = 55$$

Hence, (36, 55, 25) is the correct answer.

12. Answer: a

Explanation:

The pattern followed is:



Hence, the correct answer is "74".

★ Alternate Method

$$7 - 3 = 4$$

$$7 + (4 \times 2 + 1) = 16$$

$$16 - 7 = 9$$

$$16 + (9 \times 2 + 1) = 35$$

$$35 - 16 = 19$$

$$35 + (19 \times 2 + 1) = 74$$

$$74 - 35 = 39$$

$$74 + (39 \times 2 + 1) = 153$$

Hence, 74 is the correct answer.

13. Answer: b

Explanation:

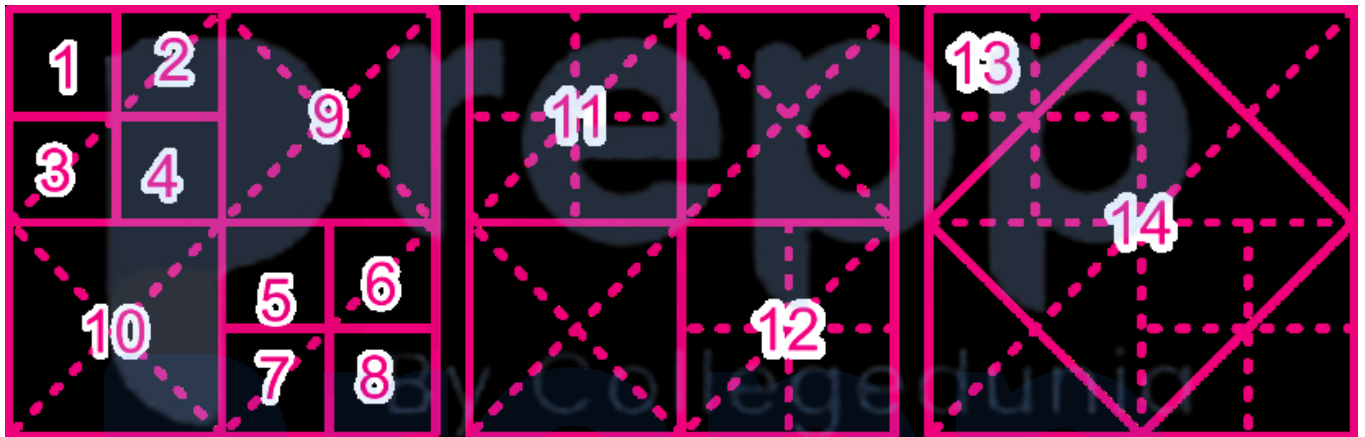
Logical sequence is:

Market – Vegetables – Buy – Cook – Dinner

Hence, correct answer is 3, 4, 1, 5, 2.

14. Answer: c

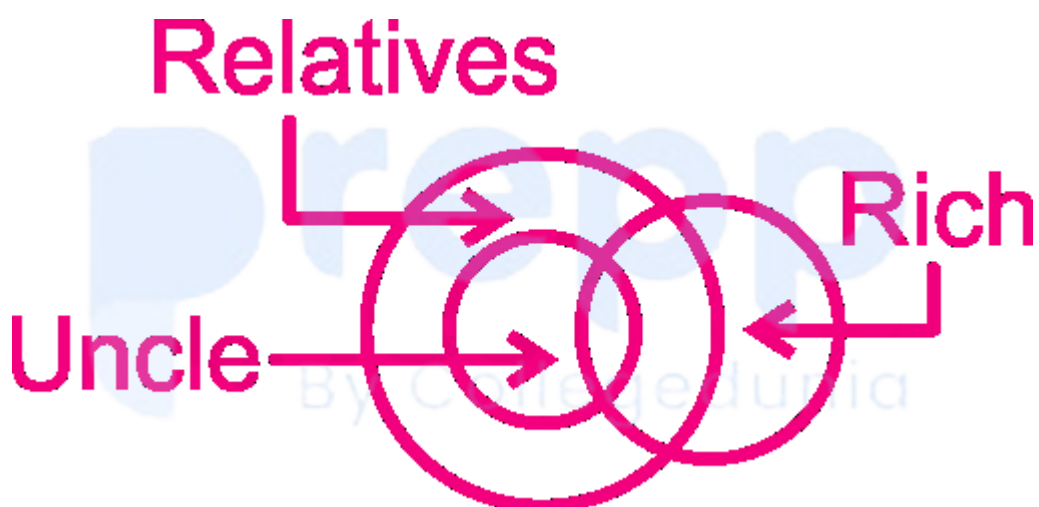
Explanation:



Hence, total number of squares is 14.

15. Answer: d

Explanation:



Hence, option 4 is the correct answer.

16. Answer: b

Explanation:

$$A + B + C = 1875 \rightarrow (1)$$

$$B + C = 2A$$

$$A + C = 4B$$

Putting value of $B + C$ in equation 1,

$$2A + A = 1875$$

$$A = 625$$

Putting value of $A + C$ in equation 1,

$$4B + B = 1875$$

$$B = 375$$

Putting values of A and B in equation 1,

$$625 + 375 + C = 1875$$

$$C = 875$$

$$C - A = 875 - 625 = 250$$

Hence, 250 is the correct answer.

17. Answer: b

Explanation:

Pattern followed is:

1st image has 2 vertical lines and 1 horizontal line, 2nd image is mirror image of 1st image.

3rd image has 3 vertical lines and 2 horizontal lines, 4th image is mirror image of 3rd image.

Hence 5th image will have 4 vertical lines and 3 horizontal lines.

Only option with 4 vertical lines and 3 horizontal lines is option 2.

Hence, option 2 is the correct answer.

18. Answer: b

Explanation:

Fennel, Mustard, Cumin are Spices.

Groundnut is not a spice.

Hence, Groundnut is the odd among them.

19. Answer: c

Explanation:

Pattern followed is:

$$1^{\text{st}} \text{ term} \times 2 \times 3^{\text{rd}} \text{ term} = 2^{\text{nd}} \text{ term}$$

$$3 \times 2 \times 4 = 24$$

Similarly,

$$4 \times 2 \times 9 = 72$$

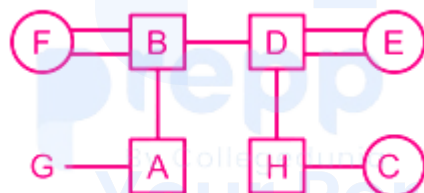
Hence, the answer is (4, 72, 9).

20. Answer: b

Explanation:

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

Tree diagram:



Hence, H is the nephew of F.

21. Answer: c

Explanation:

Pattern followed is:

$$\text{Ratio } \frac{36}{84} = \frac{3}{7}$$

Similarly,

$$\frac{27}{63} = \frac{3}{7}$$

Hence, 27:63 is the correct answer.

22. Answer: a

Explanation:

Thesaurus is a book. Book can be of multiple types Thesaurus is one of it.

Similarly

Python is a reptile. There are multiple reptiles, Python is one of them.

Hence, Reptile: Python is the correct answer.

23. Answer: d

Explanation:

In 1st cube 5 and 6 are adjacent face to 1

If we turn the 2nd cube so that 1 faces towards front then 3 will be opposite of 5.

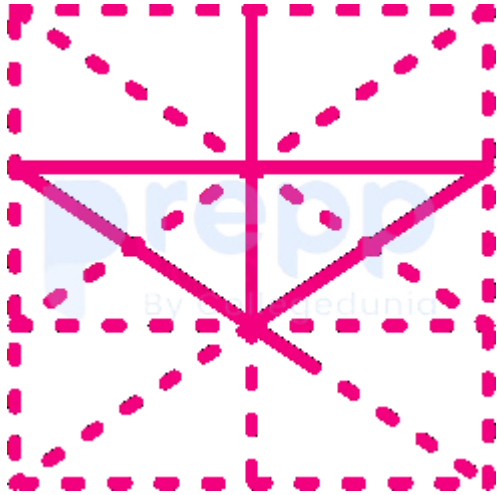
4 is opposite of 1 as it is not adjacent to 1 in any diagrams.

So, 6 and 2 will be opposite to each other.

Hence, 2 will be at top when 6 is at bottom.

24. Answer: c

Explanation:



Hence, option 3 is the correct answer.

25. Answer: c

Explanation:

Lawyer is a person who is appointed to get Justice.

Similarly,

Arbitrator is a person who is appointed for settlement.

Hence, Settlement is the correct answer.

26. Answer: c

Explanation:

- The **first female Director General of Police** of Puducherry is **Sundari Nanda** .
- **Sundari Nanda** is an 1988 batch IPS officer and she was in Delhi Police before **getting posted in Puducherry** .
- Now, she **has been transferred back** to the Delhi Police.

27. Answer: a

Explanation:

- The **33rd edition of the India-Indonesia coordinated patrol (IND-INDO CORPAT)** held from **19th March to 4th April 2019** was inaugurated at **Port Blair, Andaman and Nicobar Islands**.
- The aim of the coordinated patrol **to underscore India's peaceful presence and solidarity** with friendly maritime neighbours **to ensure good order in the maritime region**.
- The **ships and aircraft** from both the countries were the part of this programme **to patrol on the respective sides of the 236 nautical-miles-long International Maritime Boundary line**.

28. Answer: d

Explanation:

- The **Indian National Association** was **established in 1876** by **Surendranath Banerjee** and **Anand Mohan Bose** in **Calcutta now Kolkata**.
- The **Indian National Association** was **initially established as Bharat Sabha** and in 1885, it **merged with Indian National Congress (INC)**.
- **Surendranath Banerjee**, an eminent leader of **INC**, is also known as **RashtraGuru**.

29. Answer: b

Explanation:

- The **Economist Intelligence Unit** has published a report titled – **the world's most expensive city based on the Worldwide Cost of Living Survey**.

- Singapore marks its sixth straight year at the top of the rankings and is joined there by **Hong Kong** and **Paris** .
 - Among the South Asian cities, **Bengaluru, Chennai, New Delhi** and **Karachi** feature among the **10 cheapest locations** surveyed.
-

30. Answer: b

Explanation:

The correct answer is **Mahmud of Ghazni** .

★ Key Points

- Mahmud of Ghazni in 1025 AD attacked and looted the **Somnath Mandir** located **Prabhas Patan** near **Veraval** in **Saurashtra** on the western coast of **Gujarat** .
 - Mahmud of Ghazni was the **ruler of Afghanistan** .
 - The plundered Somnath Mandir was **rebuilt by the Paramara king Bhoja** of **Malwa** and the **Solanki king Bhimdev I** of **Anhilwara** between 1026 and 1042 AD.
 - Mahmud of Ghazni was a Turkish conqueror who attacked India 17 times between 1000 to 1027 AD.
 - The biggest invasion of Mahmud of Ghazni was in 1027 AD wherein he invaded the Somnath temple in Gujarat.
 - In all his 17 invasions, a number of dynasties were conquered by him.
-

31. Answer: d

Explanation:

- The frozen state of **Carbon dioxide (CO₂)** called dry ice.
- The dry ice **does not melt into a liquid** when **heated** but it **changes directly into a gas** .

- Dry ice used in hospitals and clinics, food processing units, industrial cleaning, theatrical and special effects etc.
-

32. Answer: d

Explanation:

- The **lone gold medal for India** was won by **Kavinder Singh Bisht** at the **38th GeeBee Boxing Tournament** held at **Helsinki, Finland** .
 - He defeated his opponent **Mohammed Hussamuddin** in summit clash in the 56kg category.
 - **Mohammed Hussamuddin is also an India boxer** and he won **bronze medal** in the same event.
-

33. Answer: d

Explanation:

The correct answer is France.

- **France** was the **first country** in the world to implement the **Good and Services Tax (GST)** in **1954** .
 - Since its evolution, around **160 countries of the world** have adopted this tax-system in some form or another.
 - The countries like **United Kingdom, Australia, Singapore, Canada, Italy, Spain Vietnam** and **now India** have adopted this tax-system.
 - GST is a **value-added tax-system** levied on **most goods** and **services** that are sold for **domestic consumption** .
 - It is **paid by the consumers** while it **remitted to the Government** by the **businesses offering goods and services** .
-

34. Answer: a

Explanation:

- **Malimath Committee Report** was constituted by the **Ministry of Home Affairs** under the chairmanship of **Justice V.S. Malimath**, former Chief Justice of the Karnataka and Kerala High Courts.
- It has been constituted **to recommend the admissibility of confessions made before a police officer as evidence in a court of law**.
- The committee has **submitted its recommendations** but any of the recommendations have not been implemented so far.
- It has also suggested constituting a **National Judicial Commission** and amending Article 124 to make impeachment of judges less difficult.

35. Answer: d

Explanation:

- Queen Durgavati died **fighting Mughal armies** while **defending Garha Katanga** in 1564.
- She was the **ruling Queen of Gondwana** from 1550 until 1564.
- **Khwaja Abdul Majid Asaf Khan** after taking permission from **Mughal Emperor Akbar** invaded Rani Durgavati's state.
- The attack was a part of the Mughal empire's **policy of expansionism and imperialism**.
- **Rani Durgavati preferred to die** respectfully while fighting opponents rather than being an imperial slave of Mughals.

★ Additional Information

- **Ahilyabai Holkar** (31 May 1725 – 13 August 1795) was the hereditary noble Queen of the Maratha Empire, India. Ahilya was born in the village of Chondi in Jamkhed, Ahmednagar, Maharashtra. She moved the seat of her kingdom to Maheshwar, south of Indore on the Narmada River.

- **Avantibai Lodhi** (or Avanti Bai Lodhi; died 20 March 1858) was an Indian freedom fighter and the queen of Ramgarh (present-day Dindori) in Madhya Pradesh.
-

36. Answer: c

Explanation:

- The **Musi** and **Bhima** are **tributaries of the river Krishna** .
 - Krishna river is **one of the largest rivers in peninsular India** .
 - It flows through the states of **Maharashtra, Andhra Pradesh and Karnataka** .
 - Other tributaries of Krishna river are **Tungabhadra, Mallaprabha, Yerla, Ghataprabha, Dindi, Koyna and Dudhganga** .
-

37. Answer: d

Explanation:

- The **Tata Iron and Steel company (TISCO)** was **established by Dorabji Tata in 1907** .
 - He was committed to fulfill the the dream of his father, **Jamsetji Nusserwanji Tata** , an Indian Pioneer industrialist who **founded the Tata Group** .
 - **Dorabji Tata** was **knighted by Edward VII** , becoming **Sir Dorabji Tata** in January 1910.
-

38. Answer: d

Explanation:

- The **Wadiyar dynasty** or **Wodiyar dynasty** ruled the **Kingdom of Mysuru** from 1399 to 1947 .

- After getting independence from the British rule in 1947, the **Kingdom of Mysuru** joined in the **subsequent unification of Indian dominion and princely states into the Republic of India** .
- **Wadiyar dynasty** was established by **Vijaya** and ruled Mysuru from 1399 CE to 1423 CE.
- **Vijaya's Wadiyar dynasty** belong to the **Arasu Wadiyar community of Karnataka** that includes several noble clans of the region.

39. Answer: d

Explanation:

- **Olympic Council of Asia (OCA)** has decided to **reintroduce cricket in the 2022 Asian Games to be held at Hangzhou ,China** after it was **dropped in Asian Games 2018** .
- Earlier, the game of Cricket was **featured in Asian Games 2014 and 2010** .
- In **Asian Games 2014 ,Sri Lanka and Pakistan won the men's and women's gold** respectively while in 2010 ,**Bangladesh and Pakistan won the gold medals** in the same category.
- The Indian Team **did not participated** in both the 2014 and 2010 Asian Games.

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40. Answer: a

Explanation:

- **Chham dance** is a dance form of **Himachal Pradesh** but this festival is **also popular in other Buddhist regions** .
- This dance form is **majorly associated with the Tibetan Buddhism** that prospered in the **Great Himalayan Mountain Range** .
- It is **celebrated in masked and costumed ritual** with **roots in Buddhism** .
- In the places like **Ladakh, Dharamshala, Lahaul Valley, Spiti Valley & Sikkim , and Bhutan and Tibet** , the Chham folk dance is **still in practice** among the Buddhist people.

41. Answer: c

Explanation:

The correct answer is option 3, i.e. mangrove forests.

- **Sundari** , a well-known species of trees found in mangrove forests .
- The **mangrove forests** can survive in saline water .
- In India, **Sundari trees** are found in **Sunderban delta** in **West Bengal** and in **Andaman and Nicobar Islands** .
- The **Sunderbans** named after the **Sundari trees** .

42. Answer: b

Explanation:

- The **property of catenation** is **predominant in Carbon** .
- The **capability of atoms forming a long chain by bonding with each other called catenation** .
- It is the **linkage of atoms of the same element** to form long chains.
- The catenation process predominantly in carbon and it **forms covalent bonds with other carbon atoms** to form larger chains and structures.

43. Answer: d

Explanation:

- **Methyl propane** is an **isomer of Butane** .
- Butane has the **chemical formula C_4H_{10}** and it has two structure isomers also called as **unbranched butane** , or **normal butane** , and **isobutane** , or **i-butane** .

- As per the IUPAC nomenclature practice, the **isomers of methyl propane** called as the **butane** and **2-methyl propane** .
 - Butane is a **straight-chain alkane** comprised of **4 atoms of carbon** .
 - It acts as a **food propellant** and a **refrigerant** .
 - It is a **gas molecular entity** and an **alkane** .
-

44. Answer: a

Explanation:

- **Metalloids** are those elements whose properties are in between those of **metals** and **solid non-metals** or **semiconductors** .
 - The **six commonly known metalloids** are **boron, silicon, germanium, arsenic, antimony** and **tellurium** .
 - The metalloids have a **metallic appearance** , but they are **brittle** and only **fair conductors of electricity** .
-

45. Answer: d

Explanation:

The correct answer is **Pramod Sawant**.

★ Key Points

- The incumbent Chief Minister of Goa is **Pramod Sawant** of the Bharatiya Janata Party, who was **sworn in on 19 March 2019 after the demise of Manohar Parrikar** on 17 March 2019.
 - In Goa, the **Chief Minister is the chief executive** of the state.
 - **Pramod Sawant is the 13th Chief Minister of Goa** and **Dayanand Bandodkar was the first Chief Minister of Goa** .
-

46. Answer: d

Explanation:

- **Veeraswami Ramaswami** was the **first judge of the Supreme Court of India** against whom the **impeachment process** was initiated in independent India.
- During the middle of the year 1990, several media houses reported about his **pretentious spending on his official residence** during his **tenure as a Chief Justice of Punjab and Haryana High Court**.
- For his impeachment, the Bar Association of Supreme Court had passed a resolution on February 1, 1991, and requested Chief Justice of India not to assign him any legal assignment further.
- The Bharatiya Janta Party along with Left parties submitted a notice of motion to Indian Parliament for his removal from the office.

47. Answer: c

Explanation:

- 'Thoda' sport is a form of **martial art** belonged to the state of Himachal Pradesh.
- A person need to have an **expertise in archery** to participate in this sport.
- **Bows** and **arrows** are the **main weapons** needed to play this sport.
- The objective of this sport is to **create highly energetic atmosphere** with continuous leg-kicking on one-hand and constant attempts to hit the target on the other.

48. Answer: a

Explanation:

- J J Thomson received the Nobel Prize in Physics for the discovery of the electron in 1906 .
- His work is related to the idea electricity is transmitted by a tiny particle related to the atom was first forwarded in the 1830s .
- He managed to estimate its magnitude by performing experiments with charged particles in gases in 1890.
- He also concluded that electrons are part of atoms .

49. Answer: c

Explanation:

- The iron ore, Hematite mined in the Badampahar mines of Odisha .
- In Odisha-Jharkhand belt , the high-grade hematite ore is found in Badampahar mines in the Mayurbhanj and Kendujhar districts.
- In the adjoining Singbhum district of Jharkhand, hematite iron ore is mined in Gua and Noamundi .
- Very high-grade hematites are also found in the famous Bailadila range of hills in the Bastar district of Chhattisgarh .
- The range of hills comprises of 14 deposits of super high-grade hematite iron ore .
- It has the best physical properties needed for steel making .

50. Answer: d

Explanation:

- Mark Zuckerberg , full name Mark Elliot Zuckerberg is the founder of Facebook .
- He started Facebook from his college dorm room in 2004 with room-mates Dustin Moskovitz and Chris Hughes and from New York .
- He studied Computer Science at Harvard University before moving the company to Palo Alto, California.
- He was the Time Magazine Person Of The Year in the 2010 .

51. Answer: a

Explanation:

Follow BODMAS rule to solve this question, as per the order given below:

Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

$$\Rightarrow 2 \times 3 \div 2 \text{ of } 3 \times 2 \div (4 + 4 \times 4 \div 4 \text{ of } 4 - 4 \div 4 \times 4)$$

$$\Rightarrow 2 \times 3 \div 6 \times 2 \div (4 + 4 \times 4 \div 16 - 4 \div 4 \times 4)$$

$$\Rightarrow 2 \times 1/2 \times 2 \div (4 + 4 \times 1/4 - 1 \times 4)$$

$$\Rightarrow 1 \times 2 \div (4 + 1 - 1 \times 4)$$

$$\Rightarrow 1 \times 2 \div (5 - 4)$$

$$\Rightarrow 1 \times 2 \div 1 = 2$$

52. Answer: d

Explanation:

Average of 12 numbers = 42

$\Rightarrow$ Sum of all 12 numbers = $12 \times 42 = 504$

Average of the first 4 numbers = 44

$$\Rightarrow \text{Sum of the first 4 numbers} = 4 \times 44 = 176$$

$$\text{Average of last five numbers} = 40$$

$$\Rightarrow \text{Sum of the last five numbers} = 5 \times 40 = 200$$

Let the 6th number be x .

$$\therefore 5^{\text{th}} \text{ number will be} = x + 6$$

$$\therefore 7^{\text{th}} \text{ number will be} = x + 5$$

$$\text{Sum of } 5^{\text{th}}, 6^{\text{th}} \text{ and } 7^{\text{th}} \text{ number} = 504 - 176 - 200 = 128 \text{ cm}$$

According to the question

$$\Rightarrow x + x + 5 + x + 6 = 128$$

$$\Rightarrow x = 39$$

$$\Rightarrow 7^{\text{th}} \text{ number} = x + 5 = 39 + 5 = 44$$

$$\Rightarrow 5^{\text{th}} \text{ number} = x + 6 = 39 + 6 = 45$$

$$\therefore \text{Average of } 7^{\text{th}} \text{ and } 5^{\text{th}} \text{ number} = (44 + 45)/2 = 44.5$$

53. Answer: b

Explanation:

$$4 - 2\sin^2\theta - 5\cos\theta = 0$$

$$\text{Put } \theta = 60^\circ$$

$$\Rightarrow 4 - 2 \times [3/4] - 5/2 = 0$$

$$\Rightarrow 0 = 0 \text{ (Satisfied)}$$

$$\Rightarrow \sin \theta + \tan \theta$$

$$\Rightarrow \sin 60^\circ + \tan 60^\circ$$

$$\Rightarrow \left[\frac{\sqrt{3}}{2}\right] + \sqrt{3}$$

$$\Rightarrow \frac{3\sqrt{3}}{2}$$

Alternate solution:

$$4 - 2\sin^2\theta - 5\cos\theta = 0$$

$$\Rightarrow 4 - 2(1 - \cos^2\theta) - 5\cos\theta = 0$$

$$\Rightarrow 2\cos^2\theta - 5\cos\theta + 2 = 0$$

$$\Rightarrow 2\cos^2\theta - 4\cos\theta - \cos\theta + 2 = 0$$

$$\Rightarrow 2\cos\theta (\cos\theta - 2) - 1(\cos\theta - 2) = 0$$

$$\Rightarrow (2\cos\theta - 1)(\cos\theta - 2) = 0$$

$$\Rightarrow \cos\theta = \frac{1}{2}$$

$$\therefore \theta = 60^\circ$$

$$\Rightarrow \sin\theta + \tan\theta$$

$$\Rightarrow \sin 60^\circ + \tan 60^\circ$$

$$\Rightarrow \left[\frac{\sqrt{3}}{2}\right] + \sqrt{3}$$

$$\Rightarrow \frac{3\sqrt{3}}{2}$$

54. Answer: d

Explanation:

9 digit number $985x3678y$ is divided by 72,

$\therefore$ We can say the number is also divisible by 8 and 9 both.

A number will be divisible by 8 if the last 3 digit of a number is divisible by 8.

$\Rightarrow 78y$ will be divisible by 8 if $y = 4$

A number will be divisible by 9 if the sum of the digits is divisible by 9.

$\Rightarrow 985x36784$ will be divisible by 9 if $x = 4$

$\Rightarrow 4x - 3y = 4 \times 4 - 3 \times 4 = 4$

55. Answer: a

Explanation:

$\Rightarrow \sin\theta = (\text{Perpendicular})/(\text{Hypotenuse}) = (P^2 - 1)/(P^2 + 1)$

By using Pythagoras theorem

$\Rightarrow (\text{Hypotenuse})^2 = (\text{Perpendicular})^2 + (\text{Base})^2$

$\Rightarrow (P^2 + 1)^2 = (P^2 - 1)^2 + (\text{Base})^2$

$\Rightarrow P^4 + 1 + 2P^2 = P^4 + 1 - 2P^2 + (\text{Base})^2$

$\Rightarrow (\text{Base})^2 = 4P^2$

$\Rightarrow \text{Base} = 2P$

$\Rightarrow \cos\theta = (\text{Base})/(\text{Hypotenuse}) = 2P/(P^2 + 1)$

56. Answer: d

Explanation:

Given:

Decreasing 120 by $x\%$ gives the same result as increasing 40 by $x\%$

Calculation:

According to the question

$$120 \times [(100 - x)/100] = 40 \times [(100 + x)/100]$$

$$\Rightarrow (100 - x)/(100 + x) = 40/120 = 1/3$$

$$\Rightarrow x = 50$$

$$\text{Now, } x\% \text{ of } 210 = 210 \times 50/100 = 105$$

$$\Rightarrow (x + 20)\% \text{ of } 180 = 180 \times 70/100 = 126$$

$$\therefore \text{Required percentage} = [(126 - 105)/126] \times 100 = 16\frac{2}{3}\%$$

57. Answer: c

Explanation:

Let the side of the bigger cube be 2 cm (or as you wish answer will be same in given condition)

$$\text{Volume of the bigger cube} = 2 \times 2 \times 2 = 8 \text{ cm}^3$$

Let the side of smaller cube be x.

According to the question

$$\Rightarrow x \times 8 = 8$$

$$\Rightarrow x = 1 \text{ cm}$$

$\therefore$ Side of smaller cube be 1 cm.

As we know

$$\text{Total surface area of the cube} = 6a^2$$

$$\text{Total surface area of the bigger cube} = 6 \times 2^2 = 6 \times 4 = 24 \text{ cm}^2$$

Total surface area of the smaller cube = $6 \times 1^2 = 6$

Sum of the surface area of three of the smaller cubes = $3 \times 6 = 18$

$\therefore$ Required ratio = $24 : 18 = 4 : 3$

58. Answer: a

Explanation:

$$\Rightarrow x^4 + x^{-4} = 194$$

As we know,

$$\Rightarrow x^2 + x^{-2} = \sqrt{194 + 2} = \sqrt{196} = 14$$

$$\Rightarrow x + x^{-1} = \sqrt{14 + 2} = \sqrt{16} = 4 \text{ -----(1)}$$

$$\Rightarrow x - x^{-1} = \sqrt{14 - 2} = \sqrt{12} = 2\sqrt{3} \text{ -----(2)}$$

Adding equation (1) and equation (2)

$$\Rightarrow 2x = 2\sqrt{3} + 4$$

$$\Rightarrow x = \sqrt{3} + 2$$

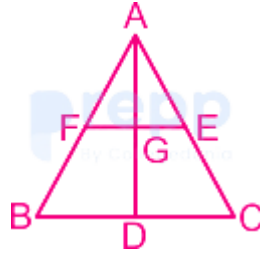
$$\Rightarrow x - 2 = \sqrt{3}$$

$$\Rightarrow (x - 2)^2 = 3$$

59. Answer: d

Explanation:

Calculation:



Let the area of $\triangle AFE$ and the area of trapezium $FECB$ be 1 square unit.

$\therefore$ Area of $\triangle ABC = 2$ square unit

As we know,

$$\Rightarrow (AG/AD)^2 = (\text{Area of } \triangle AFE) / (\text{Area of } \triangle ABC)$$

$$\Rightarrow (AG/AD)^2 = 1/2$$

$$\Rightarrow AG/AD = 1/\sqrt{2}$$

Suppose $AG = 1$ and $AD = \sqrt{2}$

$$\Rightarrow GD = AD - AG = \sqrt{2} - 1$$

$\therefore$ Required ratio = $GD : AG = (\sqrt{2} - 1) : 1$

60. Answer: a

Explanation:

Given:

$$x + y + z = 19$$

$$x^2 + y^2 + z^2 = 133$$

$$xz = y^2$$

Formula Used:

$$(a + b)^2 = a^2 + b^2 + 2ab$$

$$(a - b)^2 = a^2 + b^2 - 2ab$$

Calculation:

$$x + z = 19 - y$$

$$x^2 + z^2 = 133 - y^2$$

Square on both side

$$x^2 + z^2 + 2xz = 361 + y^2 - 38y$$

$$\Rightarrow 133 - y^2 + 2y^2 = 361 + y^2 - 38y \quad [x^2 + z^2 = 133 - y^2 \text{ and } xz = y^2]$$

$$\Rightarrow 38y = 361 - 133 = 228$$

$$\Rightarrow y = 6$$

$$(x - z)^2 = x^2 + z^2 - 2xz$$

$$\Rightarrow (x - z)^2 = 133 - y^2 - 2y^2$$

$$\Rightarrow (x - z)^2 = 133 - 3y^2$$

$$\Rightarrow (x - z)^2 = 133 - 3 \times 6^2$$

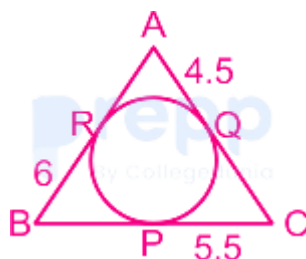
$$\Rightarrow (x - z)^2 = 25$$

$$\Rightarrow (x - z) = \sqrt{25} = 5$$

$\therefore$ The difference between z and x is 5

61. Answer: c

Explanation:



As we know,

$\Rightarrow AR = AQ, BR = BP$ and $QC = CP$

$\Rightarrow AQ = 4.5$ cm and $PC = 5.5$ cm and $BR = 6$ cm

$\Rightarrow AQ = AR = 4.5$ cm and $PC = QC = 5.5$ cm

$\Rightarrow BR = BP = 6$ cm

Perimeter of triangle = $AR + BR + BP + PC + CQ + AQ = 4.5 + 6 + 6 + 5.5 + 5.5 + 4.5 = 32$ cm

62. Answer: a

Explanation:

$\Rightarrow$ Production of cars of type A in 2014 and type C in 2013 = $48 + 36 = 84$

$\Rightarrow$ Production of cars of type B in 2016 and type E in 2015 = $56 + 35 = 91$

$\therefore$ Required ratio = $84 : 91 = 12 : 13$

63. Answer: c

Explanation:

Production of cars type D over the years = $51 + 24 + 30 + 46 + 54 = 205$

Average production of type D cars over the years = $205/5 = 41$

Production of type B cars in 2014 and 2015 are 40 and 38 thousands respectively.

Now, we can say there are 2 years in which the production of cars of type B is less than the average production of type D cars over the years.

64. Answer: b

Explanation:

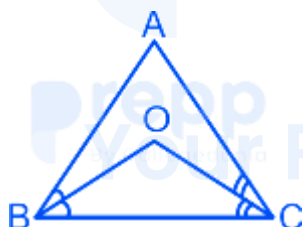
Production of type B cars in 2012, 2014 and 2015 = $42 + 40 + 38 = 120$ thousands

Production of type A cars in 2013 and 2016 = $35 + 56 = 91$ thousands

$\Rightarrow$ Required percentage = $[(120 - 91)/91] \times 100 = 31.9\%$ (Approx)

65. Answer: b

Explanation:



As we know,

$$\Rightarrow \angle BOC = 90 + \angle A/2$$

$$\Rightarrow 122^\circ = 90^\circ + \angle A/2$$

$$\Rightarrow \angle A = 64^\circ$$

66. Answer: a

Explanation:

Total production of type E cars over the year = $20 + 42 + 40 + 35 + 43 = 180$

Production of type E cars in 2013 = 42 thousands

180 thousands represents = 360°

$\therefore$ 42 thousands will represent = $[360^\circ/180] \times 42 = 84^\circ$

67. Answer: a

Explanation:

Let the cost of the article be x .

If he sold the article at a loss of 15% then SP of the article = $x \times [85/100] = 85x/100$

If he sold the article at a gained of 9%, the SP of the article = $x \times [109/100] = 109x/100$

According to the question

$$[109x/100] - [(85x)/100] = 30.60$$

$$\Rightarrow x = 127.5$$

CP of the article = Rs. 127.5

SP of the article if he sold at 10% profit = $127.5 \times [110/100] = \text{Rs. } 140.25$

68. Answer: a

Explanation:

The ratio of the efficiency of A, B and C = $2 : 5 : 3$

Total work = $(2 + 5 + 3) \times 27 = 270$

$\Rightarrow 4/9^{\text{th}}$ part of the total work = $270 \times [4/9] = 120$

$$\therefore \text{Required time} = 120 / (5 + 3) = 120 / 8 = 15 \text{ days}$$

69. Answer: a

Explanation:

Let the sum be Rs. x.

After 3 years, amount will be Rs. 8,028 and then after another 3 years amount will be Rs. 12,042.

$$\Rightarrow [8,028/x] = [12,042/8,028]$$

$$\Rightarrow x = (8,028 \times 8,028) / 12,042 = \text{Rs. } 5352$$

Alternate method,

$$p (1 + R/100)^3 = 8028$$

$$\Rightarrow (1 + R/100)^3 = 8028/p \text{ ---- (i)}$$

and,

$$p (1 + R/100)^6 = 12042$$

$$(1 + R/100)^6 = 12042/p \text{ ---- (ii)}$$

from (i) and (ii), we get

$$(8028/p)^2 = 12042/p$$

therefore p = Rs. 5352

70. Answer: c

Explanation:

$$\text{Total discount} = [259.20/720] \times 100 = 36\%$$

Now, use this trick: Go through option (C)

Single equivalent discount of two successive discount of 20%.

$$\Rightarrow 20 + 20 - (20 \times 20)/100 = 36\%$$

71. Answer: a

Explanation:

$$\frac{2+\tan^2\theta+\cot^2\theta}{\sec\theta\operatorname{cosec}\theta}$$

$$\Rightarrow \frac{1+\tan^2\theta+1+\cot^2\theta}{\sec\theta\operatorname{cosec}\theta}$$

As we know, $1 + \tan^2\theta = \sec^2\theta$ and $1 + \cot^2\theta = \operatorname{cosec}^2\theta$

$$\frac{\sec^2\theta+\operatorname{cosec}^2\theta}{\sec\theta\operatorname{cosec}\theta}$$

$$\Rightarrow \frac{\frac{1}{\cos^2\theta} + \frac{1}{\sin^2\theta}}{\frac{1}{\cos\theta} \times \frac{1}{\sin\theta}} = \frac{\frac{\sin^2\theta+\cos^2\theta}{\sin^2\theta\cos^2\theta}}{\frac{1}{\sin\theta\cos\theta}} = \frac{1}{\sin\theta\cos\theta} = \sec\theta\operatorname{cosec}\theta$$

Short Trick:

$$\frac{2+\tan^2\theta+\cot^2\theta}{\sec\theta\operatorname{cosec}\theta}$$

put $\theta = 45^\circ$

$$\frac{2+\tan^2 45^\circ+\cot^2 45^\circ}{\sec 45^\circ\operatorname{cosec} 45^\circ} = \frac{2+1+1}{\sqrt{2} \times \sqrt{2}} = \frac{4}{2} = 2$$

Go through the option

$$\sec\theta\operatorname{cosec}\theta = \sec 45^\circ\operatorname{cosec} 45^\circ$$

$$\Rightarrow \sqrt{2} \times \sqrt{2} = 2 \text{ satisfied}$$

72. Answer: c

Explanation:

Let the ratio of ages four years ago of A and B = $4x : 5x$

According to the question

$$\Rightarrow (4x + 12) / (5x + 12) = 11/13$$

$$\Rightarrow x = 8$$

Age of A four years ago = $4x = 4 \times 8 = 32$ years

$$\Rightarrow \text{Present age of A} = 32 + 4 = 36$$

Age of B four years ago = $5x = 5 \times 8 = 40$ years

$$\Rightarrow \text{Present age of B} = 40 + 4 = 44 \text{ years}$$

$$\therefore \text{Sum of their present ages} = 36 + 44 = 80 \text{ years}$$

73. Answer: c

Explanation:

Suppose the speed of the truck = x km/h

Decreased speed of the truck = $(x - 16)$ km/h

According to the question

$$\Rightarrow \frac{384}{x-16} - \frac{384}{x} = 2$$

$$\Rightarrow \frac{384 \times 16}{x(x-16)} = 2$$

$$\Rightarrow x^2 - 16x = 3072$$

$$\Rightarrow x^2 - 16x - 3072 = 0$$

$$\Rightarrow x^2 - 64x + 48x - 3072 = 0$$

$$\Rightarrow x(x - 64) + 48(x - 64) = 0$$

$$\Rightarrow (x - 64)(x + 48) = 0$$

$$\Rightarrow x = 64 \text{ and } x = -48 \text{ (not possible)}$$

Speed of truck = 64 km/h

$$\therefore 75\% \text{ speed of the truck} = 64 \times [75/100] = 48 \text{ km/h}$$

74. Answer: a

Explanation:

As we know,

$$\Rightarrow (a^3 - b^3) = (a - b)(a^2 + b^2 + ab)$$

$$\Rightarrow 5\sqrt{5}x^3 - 81\sqrt{3}y^3 = (\sqrt{5}x - 3\sqrt{3}y)(Ax^2 + By^2 + Cxy)$$

$$\Rightarrow (\sqrt{5}x)^3 - (3\sqrt{3}y)^3 = (\sqrt{5}x - 3\sqrt{3}y)(Ax^2 + By^2 + Cxy)$$

$$\Rightarrow (\sqrt{5}x - 3\sqrt{3}y)(5x^2 + 27y^2 + 3\sqrt{15}xy) = (\sqrt{5}x - 3\sqrt{3}y)(Ax^2 + By^2 + Cxy)$$

$$\Rightarrow 5x^2 + 27y^2 + 3\sqrt{15}xy = Ax^2 + By^2 + Cxy$$

On comparing

$$\Rightarrow A = 5, B = 27 \text{ and } C = 3\sqrt{15}$$

$$\Rightarrow (6A + B - \sqrt{15}C)$$

$$\Rightarrow 6 \times 5 + 27 - \sqrt{15} \times 3\sqrt{15}$$

$$\Rightarrow 57 - 45 = 12$$

75. Answer: d

Explanation:

Given:

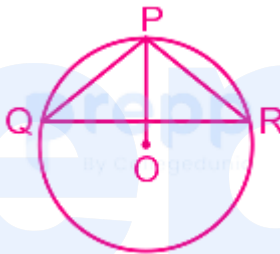
$$PQ = PR = 12 \text{ cm}$$

$$OR = OQ = OP = 10 \text{ cm}$$

Concept used:

When a line is drawn from the centre of a circle to the mid-point of a chord, then the line is perpendicular to the chord.

Calculation:



Suppose $SQ = RS = x \text{ cm}$ and $OS = y \text{ cm}$

$$\Rightarrow PS = (10 - y)$$

Since QR is a chord and S is the midpoint.

$$\Rightarrow \angle PSQ = \angle PSR = 90^\circ$$

In $\triangle PRS$

$$\Rightarrow RP^2 = PS^2 + RS^2 \quad [\text{Using Pythagoras theorem}]$$

$$\Rightarrow 12^2 = (10 - y)^2 + x^2$$

$$\Rightarrow 144 = 10^2 + y^2 - 2 \times 10 \times y + x^2$$

$$\Rightarrow 144 = 100 + y^2 - 20y + x^2 \quad \text{---- (1)}$$

In $\triangle RSO$,

$$\Rightarrow OR^2 = RS^2 + OS^2 \text{ [Using Pythagoras theorem]}$$

$$\Rightarrow 10^2 = x^2 + y^2$$

$$\Rightarrow 100 = x^2 + y^2 \quad \text{---- (2)}$$

Subtract equation (2) from equation (1)

$$\Rightarrow 144 - 100 = 100 + y^2 - 20y + x^2 - x^2 - y^2$$

$$\Rightarrow 44 = 100 - 20y$$

$$\Rightarrow y = 2.8$$

$$\therefore \text{Length of OS} = 2.8$$

76. Answer: c

Explanation:

The correct answer is Plentiful

★ Key Points

- The word 'scarce' can be defined as 'insufficient or not available in enough quantity'.
- This meaning is directly in contrast to the meaning of the word 'plentiful' which means 'existing in large quantities'.
- As for the other options, here are their meanings:
 - **Seldom** - not common or infrequent
 - **Few** - a small number of something
 - **Scanty** - insufficient in amount
- We can see that these meanings are in fact synonymous with the given word and cannot be its antonyms.
- Therefore, **option 3** is correct.

77. Answer: d

Explanation:

The correct option here is 'alike'. This is because ' *calling on* subject1 + subject2 *alike* ' is a phrase construction that is used to mean that an appeal, offer or announcement is being made to one group of people as well as another.

For example: *For this job opportunity, we are calling on freshers and seasoned professionals alike!*

Therefore, option 4 is correct.

78. Answer: a

Explanation:

The correct answer is- '**calander**'

★ Key Points

- All options except option 1 have been spelt wrongly.
- The given word in option 1 should be correctly spelled as: **calendar** .
- **Calendar**: a chart or series of pages showing the days, weeks, and months of a particular year, or giving particular seasonal information. (किसी विशेष वर्ष के दिनों, सप्ताहों और महीनों को दर्शाने वाला या विशेष मौसमी जानकारी देने वाला पृष्ठों का एक चार्ट या श्रृंखला।)
- **Callous**: showing or having an insensitive and cruel disregard for others. (दूसरों के प्रति असंवेदनशील और क्रूर अवहेलना दिखाना या होना)
- **Carriage**: a four-wheeled passenger vehicle pulled by two or more horses. (दो या दो से अधिक घोड़ों द्वारा खींचा गया चार पहिया यात्री वाहन vehicle)
- **Career**: an occupation undertaken for a significant period of a person's life and with opportunities for progress. (एक व्यक्ति के जीवन की एक महत्वपूर्ण अवधि के लिए और प्रगति के अवसरों के साथ किया गया व्यवसाय)

Therefore, the correct answer is **option 1**.

79. Answer: d

Explanation:

The correct answer is pressurize

★ Key Points

- The word '**coerce**' means '*to persuade someone to do something by force*'.
- **Let's look at the meanings of the given options:**
 - **Cajole** – persuade someone to do something by flattery
 - **Leave** – to go away
 - **Enchant** – to influence someone with charm
 - **Pressurize** – to strongly persuade someone into doing something
- We can see that the word closest in meaning to the given word is 'pressurize'.

Therefore, **option 4** is correct.

80. Answer: a

Explanation:

The correct answer is bitterly hostile

★ Key Points

- The idiom '**at daggers drawn**' means to be 'unfriendly or bitterly hostile towards each other'.
- **Example:** *They used to be friends once, but have **been at daggers drawn** since their fight last year.*
- As we can see, this meaning is clearly conveyed by **option 1**.

81. Answer: a

Explanation:

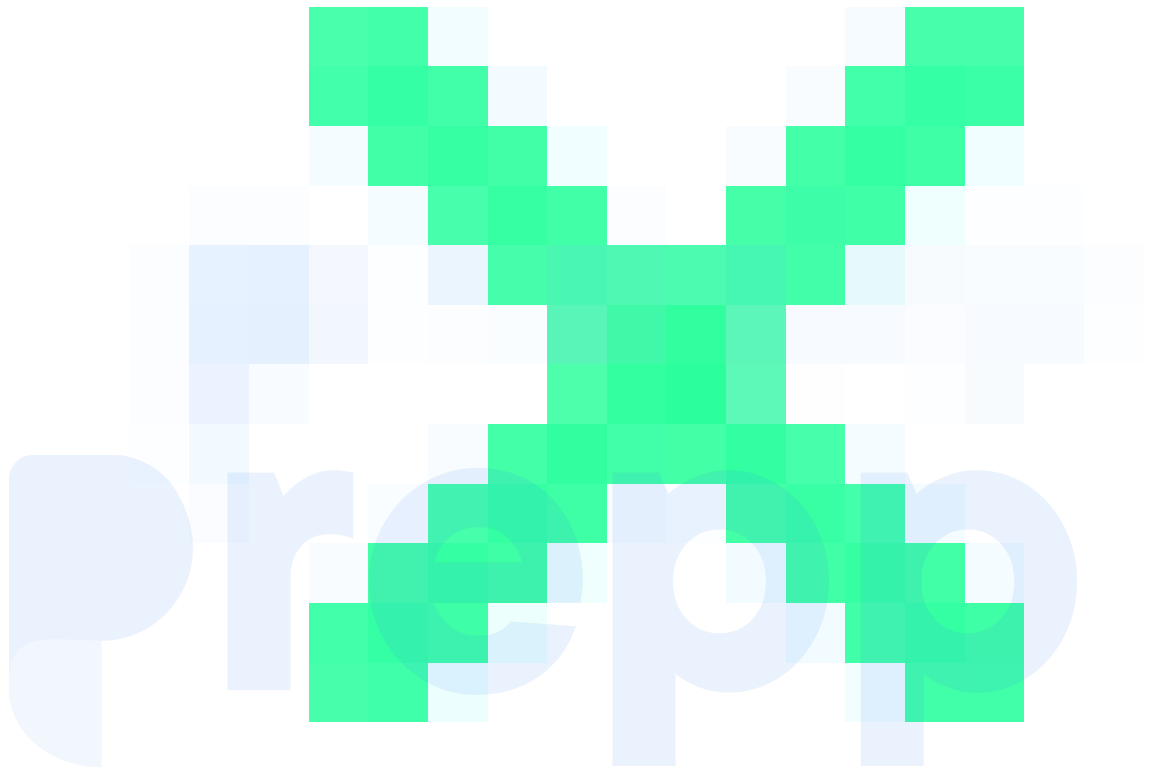
The correct answer is will fine you

★ Key Points

- Conditional sentences are statements discussing known factors or hypothetical situations and their consequences.
- If two actions take place one after the other in the future, the structure will be as given below:
 - If/unless/suppose + Subject + V 1 + Object, Subject + shall/will + V 1 + Object.
- For example:
 - If George will be there, I will not go at any cost.

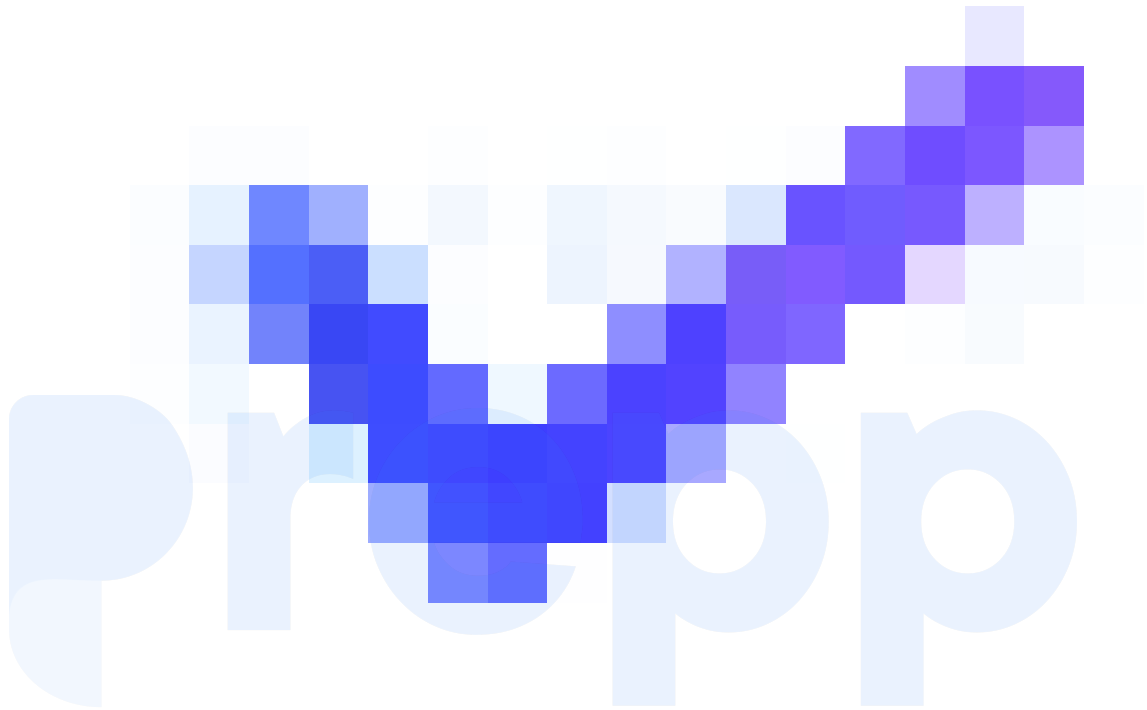
Prepp

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- If George is there, I will not go at any cost.



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- According to the rule and the example given above, 'will fine you' will be used instead of 'has fined you' in the 2nd part of the sentence.

Thus, the correct sentence is: *If you park your car here, the traffic police will fine you.*

82. Answer: c

Explanation:

The correct answer is to behave recklessly

★ Key Points

- The idiom ' **to play ducks and drakes** ' means 'to behave recklessly or misuse one's resources'.
- **Example:** *He lost his job for playing ducks and drakes with the fund of corporation.*
- We can see that option 3 is the correct explanation for this idiom.

★ Additional Information

- This expression comes from the game of **ducks and drakes**, **played** by throwing a flat stone across the surface of water in such a way as to make it skim and skip before it finally sinks.

83. Answer: c

Explanation:

The correct answer is Medicines should not be bought without the doctor's prescription

★ Key Points

- Imperative sentences are sentences that express advice, request, or command.
- There are some sentences which contain suggestion.
- Let's see how to convert these sentences into passive by some examples.

Ex:

- Respect parents. (Active Voice)
Parents should be respected. (Passive Voice)
- Love the kids. (Active Voice)
The kids should be loved. (Passive Voice)
- Follow your dreams. (Active Voice)
Your dreams should be followed. (Passive Voice)
- Thus, we use 'should' in imperative sentences in passive sentences containing 'suggestion'.

- While changing from active to passive voice, we change the subject to the object and vice versa. Thus, the object 'Medicines' will become the subject in passive voice.
- At Last lining up the remaining sentence: without the doctor's prescription.
- Thus, the sentence becomes: *Medicines should not be bought without the doctor's prescription*

84. Answer: c

Explanation:

The correct answer is compression

★ Key Points

- The word ' **expansion** ' means ' the action of becoming larger ' .
- **Let's look at the meanings of the given options:**
 - **Inflation** – the action of filling something with air or gas so that it increases in size
 - **Extension** – the action of causing something to become larger
 - **Compression** – the action of flattening or pressing something into a smaller space
 - **Augmentation** – the action of adding to something so that it becomes larger
- We can see that the word directly opposite in meaning to the given word is 'compression'. In fact, the other options are synonymous with the given word.
- Therefore, option 3 is correct.

85. Answer: c

Explanation:

The first sentence of the passage must stand independently in meaning. Out of the given options, this is only true for sentence D. The other sentences are clearly referring to subjects that have been mentioned before. **Hence, D must be the first sentence.**

The second sentence must expand on the topic introduced in the first sentence which we can see in sentence C. It starts with the word 'here', referring to 'the cafe' introduced in the first sentence. **Hence, C is the second sentence.**

Again, for the next sentence, we must look for a sentence that refers to the topic of the previous sentence: snakes. This can be found in sentence B which uses the phrase 'none of them' to refer to the snakes from the previous sentence. **Hence, B is the third sentence.**

Finally, **sentence A is the last sentence** which ends with a bit of trivia about the topic explore in the the first three sentences.

Therefore, the correct order is **DCBA** and the correct option is **option 3**.

86. Answer: c

Explanation:

The correct option here is 'mistake'. We can understand from the context of the sentence that the Korean city Seoul's government is rewarding people for pointing out faults with street signs that have been poorly translated into English and other languages.

The words 'blunder', 'guffaws' and 'oversight' have meanings similar to the word 'mistake' but they are generally used for far more serious mistakes.

Therefore, **the correct option is option 3.**

87. Answer: b

Explanation:

The phrase 'in case' is used in situations where we talk about being prepared for something that may happen.

It acts as a **conjunction** between two clauses where one clause mentions a **precaution** and the second mentions a **possibility**.

Clause 1 + *in case* + Clause 2

Constructions with 'in case' do not need the conjunction 'that' to join the two clauses. Therefore, the 'that' in the given sentence is unnecessary.

Hence, **option 2** has the error.

The correct sentence is: *We had to decline several orders in case the production was held up due to labour strike.*

88. Answer: c

Explanation:

In this question, we must choose one of these demonstratives which are words used to refer to a subject mentioned earlier in the sentence or passage.

In this case, the blank will be referring to 'people who spot the most errors' and is hence, plural. Since these people are yet unknown, the correct demonstrative for this context would be 'those'.

Hence, **option 3** is correct.

89. Answer: b

Explanation:

The first sentence of a passage must stand independently in meaning. This is only true for sentence B, since the other sentences have references to subjects not introduced within the sentences themselves.

Therefore, B is the first sentence.

The second sentence is sentence A . This is because sentence C refers to a 'he' that is not mentioned in the first sentence, while sentence D mentions 'the trash' that hasn't been mentioned in the previous sentence.

After this, sentence D makes sense, since we now understand that 'the trash' refers to the things found in the necropsy mentioned in sentence A. Therefore, **sentence D is the third sentence.**

Similarly, we now understand that the 'he' in sentence C refers to Darell Blatchley in sentence D. **Therefore, sentence C is the last sentence.**

Therefore, the logical order of the sentences is **BADC**.

Hence, option 2 is correct.

90. Answer: b

Explanation:

The correct answer is **persistent**

★ **Key Points**

- **Chronic:** continuing for a long time; constantly recurring
 - **Example:** *The individuals with certain chronic diseases who lived the longest were the fattest.*
- **Persistent:** continuing to exist or occur over a prolonged period.
 - **Example:** *persistent rain will affect many areas*
- Thus, chronic and persistent are synonyms

★ **Additional Information**

- **Meaning of other options are:**
 - **Ordinary:** with no special or distinctive features; normal
 - **Common:** occurring, found, or done often; prevalent
 - **Temporary:** lasting for only a limited period of time; not permanent
-

91. Answer: d

Explanation:

The words in options 1, 2 and 3 are spelt correctly.

The correct spelling of the word in option 4 is : **exploit**.

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

92. Answer: d

Explanation:

The correct answer is **dwarf**

★ Key Points

- **Let's look at the meanings of all the given options:**
 - **Wizard** – a man who has magical powers
 - **Creature** – an animal, a nonhuman being
 - **Witch** – a woman who has magical powers
 - **Dwarf** – a person or organism of unusually small stature
 - We can see that the word that matches the meaning of the given words is 'dwarf'.
 - Therefore, option 4 is correct.
-

93. Answer: b

Explanation:

The correct answer is reputation

★ Key Points

The word 'reputation' means '**a popular judgment held by the society about a person or organisation**'.

This fits perfectly in the context of the sentence as it conveys that the company has an image in society as the best producer of cricket balls in the country.

The meanings of the other options do not convey this:

- Opinion – a judgment that is not conclusive
- Brand – a feature that identifies a seller's goods or services
- Position – a particular way in which something is arranged

Hence, option 2 is correct.

94. Answer: d

Explanation:

The correct answer is truant

★ Key Points

- Let's look at the meanings of all the given options:
 - **Vagrant** – a person without a settled home or regular work
 - **Migrant** – a person who moves from one place to another, often to find work
 - **Itinerant** – a person who travels from place to place
 - **Truant** – a student who stays away from school without explanation

- We can see that the word that matches the meaning of the given meaning is 'truant'.

Therefore, **option 4** is correct.

95. Answer: c

Explanation:

The word 'although' is used to mean 'in spite of or even though'. This doesn't make sense in the context of this sentence as the killing of the people by the cyclone is a **result of** it tearing across South Africa, not **despite** it.

It would be better to rewrite the sentence as:

*Cyclone Idai killed at least 157 people in Zimbabwe and Mozambique **as** it tore across Southern Africa.*

Therefore, the part in option 3 has the error.

96. Answer: a

Explanation:

The correct answer is The guards were thoroughly checking every passing vehicle.

★ Key Points

- The structures for both the active and passive forms for past continuous tense are given below:
 - Active form- Subject + was/were + V 1 + ing + Object
 - Passive form- Object + was/were + being + V 3 + by + Subject
- Example:
 - *He was playing a Cricket match. (active voice)*
 - *A Cricket match was being played by him. (passive voice)*

- The given sentence is an assertive one and in the passive voice form.
- Follow the active form structure for the past continuous tense given above:
 - Exchange the places of the subject and object. (Every passing vehicle – the guard)
- At last line up the remaining part

Following these steps, we finally get- *The guards were thoroughly checking every passing vehicle.*

97. Answer: b

Explanation:

The correct word to fill the blank here is 'particular' which means 'singled out or special'. This is because the sentence mentions the exact, specific types of street signs that the campaign is focusing on.

The other options do not fit this context.

Here are their meanings:

- Important – of great significance
- Signifying – indicative of something
- Meticulous – careful or precise

Hence, option 2 is correct.

98. Answer: d

Explanation:

The meaning of 'band' in this sentence is 'a popular group of men or women who perform music together'.

It is more likely that during performances, these bands would wear 'costumes' which means 'elaborate, colorful or distinctive set of clothes'.

In contrast, 'apparels', 'clothings' and 'dressing' are just generic terms that aren't used to refer to any specific type of clothes.

Hence, option 4 is correct.

99. Answer: d

Explanation:

The correct answer is have been demanding higher wages

★ Key Points

- The key to figuring out the correct tense for this sentence is the phrase 'for a long time'.
- It indicates that **we need to use a tense that expresses how something started in the past and is continuing at the present time.**
- The tense that fits this requirement is the **present perfect continuous tense**. This is the pattern it follows:
 - *has/have + been + verb-ing*
 - **Example:** *She **has been working** on this project since last year.*
- It means that she started working on the project since last year and is still doing so.
- The verb tenses in the option do not express this sense of continuity.
- Therefore, **option 4** is correct.

100. Answer: b

Explanation:

In this question, we must pick the correct article out of the given options.

Since the subject being referred to i.e. 'campaign' has not been mentioned before in the passage, therefore the **article here must be indefinite** . So, option 4 is incorrect.

The word 'campaign' starts with a consonant sound, so option 3 cannot be correct.

Option 1, a number, doesn't make sense here.

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



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