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Reasoning

Instructions

For the following questions answer them individually

Question 1

J, A, G, E, V and F are sitting around a round table facing the center. F is to the left of G, who is opposite A, V is between A and J. Who is to the left of E?

A V

B G

C A

D F

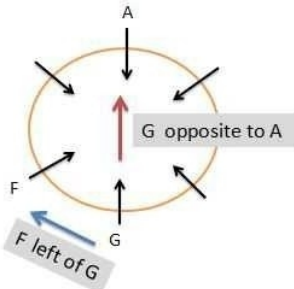
E

Answer: C

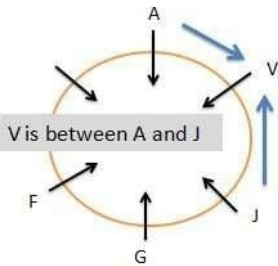
Explanation:

Let's plot all details on Circle with 6 Places.

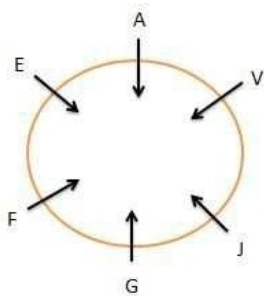
1) F is to the left of G, who is opposite A



2) V is between A and J



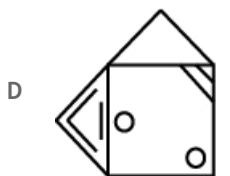
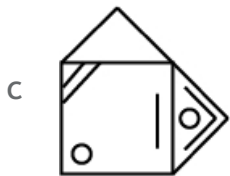
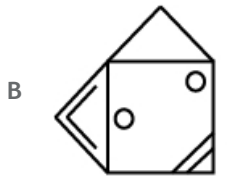
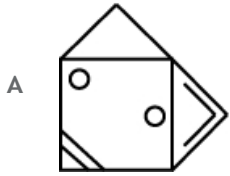
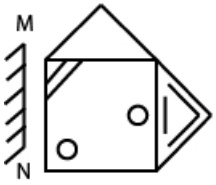
3) Final Figure will be



Hence A is Sitting Left of E.

Question 2

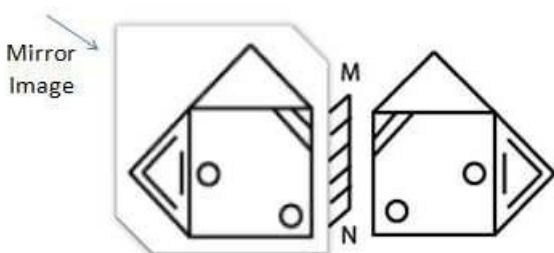
Which of the answer figure is exactly the mirror image of the given figure, when the mirror is placed on the line MN?



Answer: D

Explanation:

This is how mirror image will look like. Correct Answer is D.



Question 3

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statement:

1. All cans are jars.
2. No tins are cans.

Conclusion

- I. Some jars are tins.
- II. All tins are jars.

- A Both I and II follow
- B Neither I nor II follows
- C Only conclusion II follows
- D Only conclusion I follows

Answer: B

Question 4

In a certain code, ADMIT is coded as BFPMY, then how is CARD coded in the same way?

- A DUCH
- B DCHU
- C DCUH
- D UCDH

Answer: C

Question 5

G, H, I, J and K are sitting in a row. J is neither next to H nor K. J is NOT at the end. I is to the left of G. Who is to the left of K?

- A J
- B H
- C I
- D G

Answer: C

Question 6

Select the option that is related to the third term in the same way as the second term is related to the first term.

Kangaroo : Hopping :: snake :

- A Bite
- B Walking
- C Crawling
- D Scrolling

Answer: C

Question 7

Select the correct option that will fill in the blank and complete the series.

0.25, 1,, 4, 6.25, 9

- A 2.25

B 2

C 2.75

D 3

Answer: A

Question 8

Select the related word pair from the given alternatives.

Crime : Criminology :: :

A Heart: Hematology

B Flower : Floriculture

C Human behavior : Meteoricists

D Universe : Cosmology

Answer: D

Question 9

If GREAT is written as 62149 and FINAL as 53047, how will REGAL be written?

A 26147

B 21647

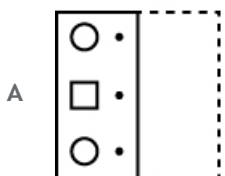
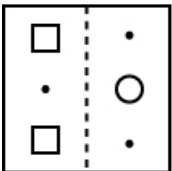
C 22471

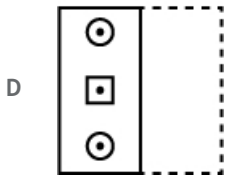
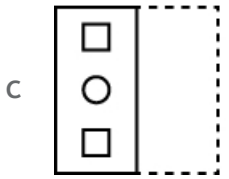
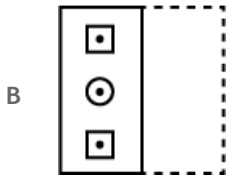
D 22674

Answer: B

Question 10

A figure marked on transparent sheet is given and followed by four answer figures, one out of these four options resembles the figure, which is obtained by folding transparent sheet along the dotted line. This option is your answer.

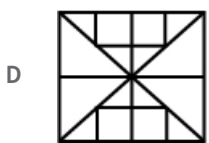
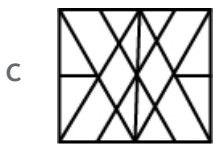
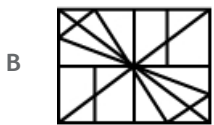
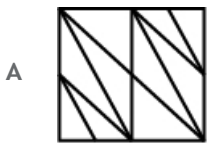
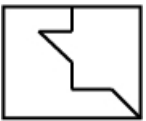




Answer: B

Question 11

Choose the option figure in which the problem figure is hidden/embedded.



Answer: D

Question 12

Four options have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A 2321

B 825

C 1521

D 968

Answer: C

Question 13

Select the correct option that will fill in the blank and complete the series.

AA, BD, CI, DP,

A EY

B FR

C ER

D FY

Answer: A

Question 14

Sonu is taller than Yatendra, Amit is taller than Sonu. Subhash is taller than Amit. Sattu is tallest of all. If they stand according to their height who will be exactly in the middle?

A Sonu

B Subhash

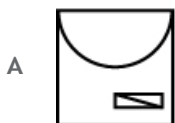
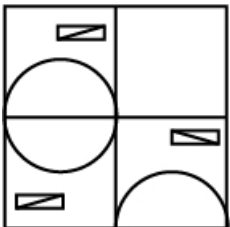
C Yatendra

D Amit

Answer: D

Question 15

Which of the following answer figure will complete the given figure?

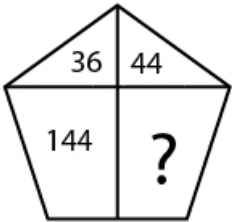




Answer: B

Question 16

Find the missing number from the below options.



A 176

B 154

C 179

D 183

Answer: A

Question 17

In the question two statements are given, followed by three conclusions, I, II and III. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statement:

1. Some hills are dunes.
2. No dunes are mountains.

Conclusion

- I. Some dunes are hills.
- II. Some mountains are hills.
- III. All hills are mountains.

A Only conclusion III follows

B Only conclusion I follows

C Only conclusion I and II follow

D All conclusions I, II and III follow

Answer: B

Question 18

Select the correct combination of mathematical signs to replace ‘*’ signs and to balance the given equation:

$$44 * 6 * 12 * 3 * 20$$

A $- + \times =$

B $\times \div + =$

C $\div \times + =$

D $- \times \div =$

Answer: D

Question 19

Four letter clusters have been given, out of which three are alike in some manner, while one is different. Choose the odd one.

A GCE

B PLN

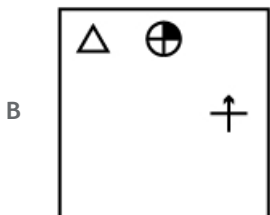
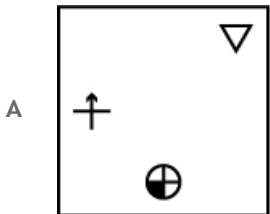
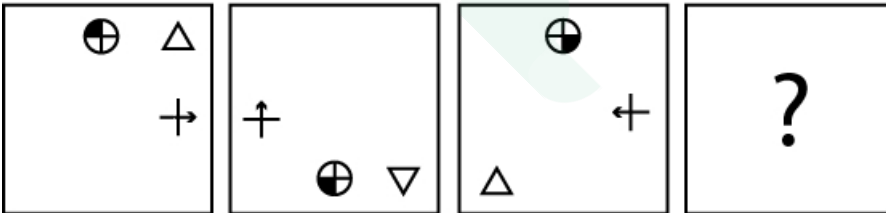
C SJL

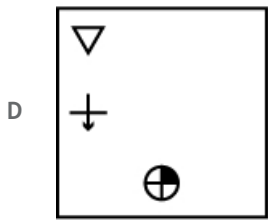
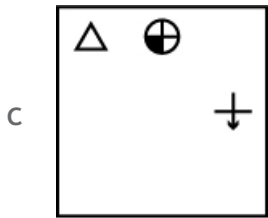
D JFH

Answer: C

Question 20

Choose the option which completes the given figure series

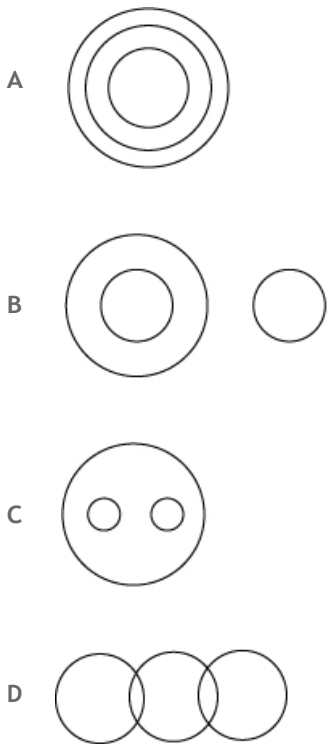




Answer: D

Question 21

Select the Venn diagram that best illustrates the relationship between the three given classes.
Bachelor, Married, Person



Answer: C

Question 22

Four words have been given, out of which three are alike in some manner, while one is different. Choose the odd one.

- A Quill
- B Esophagus
- C Cranium
- D Nasal bone

Answer: A

Question 23

Select the correct option that will fill in the blank and complete the series.
32, 144, ____, 2916, 13122, 59049

- A 846
- B 684
- C 648
- D 864

Answer: C

Question 24

Select the option that is related to the third term in the same way as the second term is related to the first term.
GHI : LKJ :: STU : ?

- A ZXY
- B XWV
- C WVX
- D UTV

Answer: B

Question 25

Select the option that is related to the Third term in the same way as the second term is related to the first term.
22 : 333 :: 4444 :

- A 5555
- B 55555
- C 555
- D 55

Answer: B

General knowledge

Instructions

For the following questions answer them individually

Question 26

The Chauri Chaura incident happened in the modern state of:

- A Uttar Pradesh

- B Delhi
- C Kerala
- D Madhya Pradesh

Answer: A

Question 27

Extrusive rocks are a type of:

- A Sedimentary rocks
- B Fossil rocks
- C Metamorphic rocks
- D Igneous rocks

Answer: D

Question 28

Which of the following suggestions to the Government about commercial lawsuits is indicated within the 2017-18 economic survey of India?

- A Should not make any changes in the number of lawsuits
- B Should increase the number of lawsuits
- C Should reduce the pendency of lawsuits
- D Should appoint a committee to examine the number of lawsuits they file

Answer: C

Question 29

All living organisms are classified into..... kingdoms under the system proposed by Whittaker (1969),

- A Seven
- B Five
- C One
- D Three

Answer: B

Question 30

The 2017 Sahitya Academy award for Malayalam was won by:

- A K.P Ramanunni

- B K.R Meera
- C Prabha Varma
- D Oomen Chandy

Answer: A

Question 31

The Finance Commission in India is constituted by the..... under article 280 of the Constitution.

- A Supreme Court
- B Parliament
- C Prime Minister
- D President

Answer: D

Question 32

The only Indian Prime Minister to die outside India is:

- A Indira Gandhi
- B Lal Bahadur Shastri
- C Morarji Desai
- D Jawaharlal Nehru

Answer: B

Question 33

In the central government budget, the annual financial statement shows:

- A The estimated money that has been earned by State Government of India
- B The estimated receipts and expenditures of the Government of India
- C The estimated money that has been spent by the Zilla Parishad
- D The estimated receipts and expenditures of the individual states

Answer: B

Question 34

An instrument called the..... measures the electric current in a circuit.

- A Ammeter
- B Ohmmeter
- C Thermometer

D Gyroscope

Answer: A

Question 35

..... is the mark of quality for all industrial products in India.

A Agmark

B ISI

C FPO

D Ecomark

Answer: B

Question 36

In the 2016 Olympics,..... won the men's 100-meter sprint gold.

A Jesse DeGrasse

B Usain Bolt

C William Blake

D Justin Gatlin

Answer: B

Question 37

In India, the growth of anti-colonial movement led to:

A Sectarianism

B Conflict

C Diversity

D Unity

Answer: D

Question 38

The Ajodhya Hills is located in:

A Uttar Pradesh

B Kerala

C Madhya Pradesh

D West Bengal

Answer: D

Question 39

Kud is a form of dance from the state of

- A Jammu and Kashmir
- B Gujarat
- C West Bengal
- D Kerala

Answer: A

Question 40

..... won the women's title in the 2018 US Open Tennis Championship finals.

- A Martina Hingis
- B Naomi Osaka
- C Serena Williams
- D Venus Williams

Answer: B

Question 41

The property of Catenation is most readily predominant in:

- A Silicon
- B Nitrogen
- C Carbon
- D Sulphur

Answer: C

Question 42

The precursor to the famous Odissi dance is:

- A Kuchipudi
- B Bhangra
- C Bharatanatyam
- D Gotipua

Answer: D

Question 43

An ecosystem consists of:

- A Only living organisms
- B Living organisms and physical factors
- C Only insects
- D Only physical factors

Answer: B

Question 44

Sour tasting food is..... in nature.

- A Acidic
- B Neutral
- C Basic
- D Alkaline

Answer: A

Question 45

The Dual System of Government in Bengal was the brainchild of

- A Lord Hastings
- B Lord Ripon
- C Lord Clive
- D Lord Cornwallis

Answer: C

Question 46

The Eighth Schedule of the Indian Constitution includes..... languages.

- A 22
- B 25
- C 2
- D 100

Answer: A

Question 47

Humans normally have.....number of pairsof autosomes,

- A 10
- B 21
- C 20
- D 22

Answer: D

Question 48

A good measure of biodiversity of an area is:

- A The number of animals found there
- B The number of trees found there
- C The number of people found there
- D The number of species found there

Answer: D

Question 49

The union territories of India have been created because they are:

- A Too small to be a state
- B Have too many people to be a state
- C Extremely large
- D Too big to be a state

Answer: A

Question 50

What was the time period of the most recent term served by the former Chief Economic Advisor, Arvind Subramanian?

- A 2014-2018
- B 2014-2017
- C 2009-2014
- D 2014-2016

Answer: A

Quant

Instructions

For the following questions an

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Question 51

The ratio between the speeds of two cars is 6 : 5. If the second car runs 600 km in 6 hours, then the speed of the first car is:

- A 100 km/hr
- B 120 km/hr
- C 110 km/hr
- D 90 km/hr

Answer: B

Explanation:

Let the speeds of the two cars be $6x$ km/hr and $5x$ km/hr.
Given, Speed of second car = $600\text{km}/6$ hours = 100 km/hr
 $5x = 100 \Rightarrow x = 20$
Therefore, Speed of the first car = $6x = 6 \times 20 = 120$ km/hr

Question 52

The mean of 23, 45, 64, 81 and 77 is:

- A 56
- B 58
- C 54
- D 52

Answer: B

Explanation:

$$\text{Mean of 23, 45, 64, 81 and 77} = \frac{23 + 45 + 64 + 81 + 77}{5} = \frac{290}{5} = 58$$

Question 53

The listed price of a product is ₹ 500. What shall be the sale price after successive discounts of 10% and 10%?

- A ₹450
- B ₹425
- C ₹400
- D ₹405

Answer: D

Explanation:

Given, Marked Price = Rs.500
Discount = 10% each

$$\text{Effective discount} = -10 - 10 + \frac{10 \times 10}{100} = -20 + 1 = 19\%$$

Discount = 19% of 500 = Rs.95

Therefore, Selling Price = Rs.500-95 = Rs.405

Question 54

A and C, B and C and A, B and C can complete a work in 20, 12 and 8 days respectively. In how many days A and B together can complete that work?

- A $\frac{65}{7}$ days
- B $\frac{41}{3}$ days
- C $\frac{71}{3}$ days
- D $\frac{60}{7}$ days

Answer: D

Explanation:

Let the total work be 120 units (LCM of 20, 12 and 8)

Efficiency of A+C = $120/20 = 6$ units/day

Efficiency of B+C = $120/12 = 10$ units/day

Efficiency of A+B+C = $120/8 = 15$ units/day

Then, Efficiency of A = $15 - 10 = 5$ units/day

Efficiency of B = $15 - 6 = 9$ units/day

Efficiency of C = $15 - (5+9) = 15 - 14 = 1$ unit/day

Total efficiency of A and B = 14 units/day

Therefore, A and B together can do the work in $\frac{120}{14} = \frac{60}{7}$ days

Question 55

A batsman scored 120 runs which included 15 fours and 2 sixes. What percent of runs scored by him running between the wickets?

- A 40%
- B 35%
- C 37.50%
- D 25%

Answer: A

Explanation:

Total score made with boundaries and sixes = $15 \times 4 + 2 \times 6 = 60 + 12 = 72$ runs

Score made by running between the wickets = $120 - 72 = 48$ runs

Required percentage = $\frac{48}{120} \times 100 = 40\%$

Question 56

The line graph shows the scores of a batsman in 6 matches. In how many matches was his performance better than the previous match?

- A 2
- B 4
- C 3
- D 1

Answer: C

Explanation:

Score in 1st match = 10

Score in 2nd match = 17

Score in 3rd match = 51

Score in 4th match = 45

Score in 5th match = 63

Score in 6th match = 39

Hence, In 2nd match, 3rd match and 5th match, his performance was better than 1st match, 2nd match and 4th match respectively.

Question 57

If $a : b = 2 : 3$, $b : c = 5 : 6$ and $c : d = 8 : 9$, then $a : d = ?$

- A 42:81
- B 44:81
- C 37:81
- D 40:81

Answer: D

Explanation:

$a : b = 2 : 3$

$c : d = 5 : 6$

Multiplying $a : b$ by 5 and $c : d$ by 3

$\Rightarrow a : b = 10 : 15$ and $c : d = 15 : 18$

$a : b : c = 10 : 15 : 18$

$c : d = 8 : 9$

Multiplying $a : b : c$ by 4 and $c : d$ by 9

$\Rightarrow a : b : c = 40 : 60 : 72$ and $c : d = 72 : 81$

Then, $a : b : c : d = 40 : 60 : 72 : 81$

Therefore, $a : d = 40 : 81$

Question 58

The value of:

$4 \div 2 + 3 \times 6 - 7$ is:

A 13

B 14

C 11

D 12

Answer: A

Explanation:

$$4 \div 2 + 3 \times 6 - 7 = 2 + 18 - 7 = 13$$

Question 59

The difference between simple and compound interests compounded annually, on a certain sum of money for 2 years at 6% pa is ₹ 3.6. What is the sum?

A ₹800

B ₹750

C ₹1,000

D ₹1,250

Answer: C

Explanation:

Let the principal be Rs.10000x

Simple Interest for 1 year at 6% per annum = Rs.600x

Simple Interest for 2 years at 6% per annum = Rs.600*2 = Rs.1200x

Amount of Compound Interest for 2 years at 6% per annum = $Rs.10000x \times \frac{106}{100} \times \frac{106}{100} = Rs.11236x$

Compound Interest = Rs.11236x - Rs.10000x = Rs.1236x

Difference between SI and CI = 1236x - 1200x =

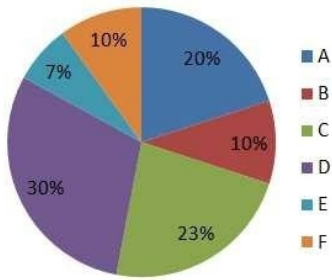
Rs.36x Given, 36x = Rs.3.6

=> x = 0.1

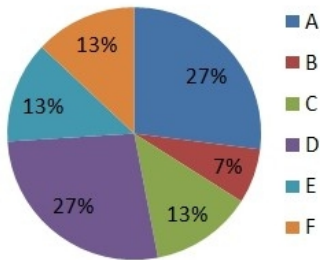
Therefore, Principal = Rs.10000x = Rs.10000*0.1 = Rs.1000

Question 60

DISTRIBUTION OF SALES IN 2017



DISTRIBUTION OF SALES IN 2018



The pie charts shows the percentage market share of different companies in the market for the year 2017 and 2018. The total sale increased from 150 crores to 225 crores during 2017 to 2018. What is the ratio of sales of Company D in the year 2018 to its sales in the year 2017?

- A 16 : 21
- B 21 : 16
- C 27 : 20
- D 20 : 27

Answer: C

Explanation:

$$\text{Sales of D in 2018} = 100 \times \frac{27}{225}$$

$$\text{Sales of D in 2017} = 100 \times \frac{30}{150}$$

$$\text{Then, Required ratio} = 100 \times \frac{27}{225} : 100 \times \frac{30}{150} = 27 : 20$$

Question 61

An article was bought for ₹ 400 and a repairing charge of ₹ 50 was paid on it. It is sold at a profit of 20%, after a discount of 10% on its marked price. The marked price is:

- A ₹540
- B ₹640
- C ₹580
- D ₹600

Answer: D

Explanation:

$$\text{Total Cost Price} = \text{Rs.}400 + \text{Rs.}50 = \text{Rs.}450$$

$$\text{Selling Price} = \text{Rs.}450 \times 100 = \text{Rs.}540$$

$$\text{Discount} = 10\%$$

$$100$$

$$\text{Then, Marked Price} = 540 \times 90 = \text{Rs.}600$$

Question 62

The ratio of two numbers is 4 : 5 and the sum of their cubes is 1512. The square of their difference is:

A 2.25

B 4

C 2

D 1

Answer: B

Explanation:

Let the two numbers be $4x$ and $5x$

$$\text{Sum of their cubes} = 4x^3 + 5x^3 = 64x^3 + 125x^3 = 189x^3$$

$$\text{Given, } 189x^3 = 1512 \Rightarrow x^3 = 8 \Rightarrow x = 2$$

$$\text{Then, Two numbers are } 4x = 4 \times 2 = 8 \text{ and } 5x = 5 \times 2 = 10$$

$$\text{Therefore, Square of their difference} = (10 - 8)^2 = 2^2 = 4$$

Question 63

A right triangle contains the right angle between the sides 5 cm and 7 cm. A cone is generated by revolving about the side 5 cm. The volume of this cone is:

A $51\frac{2}{3} \pi \text{ cm}^3$

B $71\frac{2}{3} \pi \text{ cm}^3$

C $81\frac{2}{3} \pi \text{ cm}^3$

D $61\frac{2}{3} \pi \text{ cm}^3$

Answer: C

Explanation:

When a right angled triangle is revolved about its height, its base becomes radius of the cone and its height becomes height of the cone.

Here, Height = 5 cm, Radius = 7 cm

$$1 \qquad 245 \qquad 2$$

$$\text{Volume of the cone} = 3 \times \pi \times 7 \times 7 \times 5 = 3 \pi = 813 \pi \text{ cm}^3$$

Question 64

A can complete a task in 8 days and B in 16 days respectively. If they work together for 3 days, then the remaining part of the work left is:

- A $\frac{5}{16}$
- B $\frac{9}{16}$
- C $\frac{7}{16}$
- D $\frac{11}{16}$

Answer: C

Explanation:

Let the total work be 16 units (LCM of 8 and 16)

Efficiency of A = $16/8 = 2$ units/day

Efficiency of B = $16/16 = 1$ unit/day

Total work done in 1 day = 3 units

Then, In 3 days, 9 units of work will be completed.

$$16 - 9 = 7$$

Remaining part of work = $7 = 7$

Question 65

A and B together have ₹ 1800. If $\frac{4}{3}$ of A's amount is equal to $\frac{2}{3}$ of B's amount, how much does B have?

- A ₹1200
- B ₹900
- C ₹750
- D ₹600

Answer: A

Explanation:

Let the amount present with A be Rs.x

Then the amount with B = Rs. $1800 - x$

$$\frac{4}{3}x = \frac{2}{3}(1800 - x)$$

Given, $\frac{4}{3}x = \frac{2}{3}(1800 - x)$

$$\Rightarrow 4x = 3600 - 2x \Rightarrow 6x = 3600 \Rightarrow x = 600$$

Therefore, Amount present with B = $1800 - x = 1800 - 600 = \text{Rs. } 1200$

Question 66

The bar graph shows the number of cars sold by a distributor in each month from January to June. How many more cars did he sell in the second quarter as compared to the first?

- A 20
- B 25

C 10

D 30

Answer: D

Explanation:

Number of cars sold in first quarter = $100+85+60 = 245$

Number of cars sold in second quarter = $95+110+70 = 275$

Therefore, 30 more cars sold in second quarter than first quarter.

Question 67

A hollow iron pipe is 10 cm long and its external diameter is 18 cm. If the thickness of the pipe is 2 cm and iron weighs 8.5 g/cm^3 , then the weight of the pipe from the following is closest to:

A 8.54 kg

B 9.54 kg

C 7.54 kg

D 5.54 kg

Answer: A

Explanation:

External radius of the pipe = 9 cm

Internal radius of the pipe = $9-2 = 7\text{cm}$

Volume of the pipe = $\pi \times (9^2 - 7^2) \times 10 = 1005.71 \text{ cm}^3$

Weight of the pipe per $\text{cm}^3 = 8.5 \text{ gm}$

Then, Total weight = $1005.71 \times 8.5 = 8548 \text{ gm} = 8.54 \text{ kg}$

Question 68

In the first 20 overs of a cricket game, the average run rate was 5.50, what should be the required average run rate in the remaining 30 overs to achieve a target of 290 runs?

A 5.75

B 6.5

C 6

D 6.25

Answer: C

Explanation:

Score made in first 20 overs = $20 \times 5.5 = 110$ runs

Target = 290 runs

Remaining score = $290 - 110 = 180$ runs

Required run rate per over = $180/30 = 6$

Question 69

A sum of money at simple interest amounts to ₹ 400 in 4 years and ₹ 420 in 5 years. What is the sum?

A ₹ 340

B ₹ 220

C ₹320

D ₹200

Answer: C

Explanation:

Given, Amount for 4 years = Rs.400

Amount for 5 years = Rs.420

Then, Simple Interest for 1 year = $420 - 400 = \text{Rs.}20$

Simple Interest for 4 years = $\text{Rs.}20 \times 4 = \text{Rs.}80$

Then, Principal = $\text{Rs.}400 - \text{Rs.}80 = \text{Rs.}320$

Question 70

220 articles dropped in a water tank which is 52 m long and 47 m broad. If the average displacement of water by an article is 4.5 m^3 , then approximate rise in the water level will be:

A 40.5 cm

B 20.5 cm

C 12.5 cm

D 30.5 cm

Answer: A

Explanation:

Displacement of water by 220 articles = $220 \times 4.5 = 990 \text{ m}^3$

Let the approximate rise in water be h m

$990 = 52 \times 47 \times h$

$\Rightarrow h = 990/2444 = 0.405 \text{ m} = 40.5 \text{ cm}$

Question 71

x buys a scooter for ₹ 40,000 and spends ₹ 5,000 on its repair. He sells it for ₹ 54,000. What is the gain percent?

A 12.50%

B 20%

C 25%

D 15%

Answer: B

Explanation:

Total Cost Price of the scooter = $\text{Rs.}40000 + \text{Rs.}5000 = \text{Rs.}45000$

Selling Price = $\text{Rs.}54000$

Gain percent = $\frac{54000 - 45000}{45000} \times 100 = \frac{9000}{45000} \times 100 = 20\%$

Question 72

The average age of husband, wife and their child 4 years ago was 26 years and that of wife and child 3 years ago was 22 years. What is the present age of the husband?

A 44 years

- B 46 years
- C 42 years
- D 40 years

Answer: D

Explanation:

Let the present ages of Husband, Wife and Child be H, W and C years respectively.

$$H - 4 + W - 4 + C - 4$$

Given, $\frac{3}{2} = 26 \Rightarrow H + W + C - 12 = 78 \Rightarrow H + W + C = 90$

$$W - 3 + C - 3$$

$$\frac{2}{2} = 22 \Rightarrow W + C - 6 = 44 \Rightarrow W + C = 50$$

Substituting $W+C = 50$ in above equation.

$$H + 50 = 90 \Rightarrow H = 40$$

Therefore, The present age of the husband = 40 years.

Question 73

What is the value of:

$$8 \times 3 \div 6 + 7 - 4 \times 2 \div 4 + 8 - 10 = ?$$

- A 6
- B 5
- C 7
- D 4

Answer: C

Explanation:

$$8 \times 3 \div 6 + 7 - 4 \times 2 \div 4 + 8 - 10 = 8 \times \frac{3}{6} + 7 - (4 \times \frac{2}{4}) + 8 - 10 = 4 + 7 - 2 + 8 - 10 = 7$$

Question 74

The HCF and LCM of 2 numbers are 2 and 60 respectively. If one of the numbers is 14 more than the other, then the smaller number is:

- A 7
- B 5
- C 6
- D 4

Answer: C

Explanation:

Let one number be x

Then other number will be $x+14$

We know that Product of two numbers = Product of LCM and HCF

$$x \times (x + 14) = 2 \times 60$$

$$\Rightarrow x^2 + 14x = 120$$

$$\Rightarrow x^2 + 14x - 120 = 0$$

$$\Rightarrow x^2 + 20x - 6x - 120 = 0$$

$$\Rightarrow x(x+20) - 6(x+20) = 0$$

$$\Rightarrow (x-6)(x+20) = 0$$

$$x = 6 \text{ or } -20$$

Here, One number is 6, then the other number is $6 + 14 = 20$

Therefore, The smallest number is 6.

Question 75

Two stations P and Q are 570 km apart on a straight line. One train starts from P at 5 a.m. and travels towards Q at 90 km/h. Another train starts from Q at 6 a.m. and travels towards P at a speed of 70 km/h. At what time will they meet?

A 11 a.m.

B 9 a.m.

C 1 p.m.

D 3 p.m.

Answer: B

Explanation:

Distance between P and Q = 570 km

Speed of first train = 90 km/hr

Speed of second train = 70 km/hr

Second train starts after 1 hour of start of first train.

Then, First train travels 90 km in that 1 hour.

Remaining distance = 570 km - 90 km = 480 km

Relative speed = 90+70 = 160 km/hr

Time taken to meet = 480/160 = 3 hours.

Hence, They will meet 3 hours after 6am = 9am

English

Instructions

For the following questions answer them individually

Question 76

Select the meaning of the given idiom.

Hit a bad patch

A Came across stormy weather

B Had a bumpy car ride

C Went through many illnesses

D Experienced difficulty

Answer: D

Question 77

Select the most appropriate word to fill in the blank.

These medicines are..... for curing cold.

- A natural
- B effective
- C powerful
- D proper

Answer: B

Question 78

Identify the segment in the sentence which contains the grammatical error from the given options.
Ships are made of iron and a parts of them remains under water.

- A under water
- B Ships are
- C made of iron
- D a parts of

Answer: D

Question 79

Select the antonym of the given word.
DISTANT

- A Beyond
- B Close
- C Remote
- D Far

Answer: B

Question 80

Select the meaning of the given idiom.
Man of straw

- A Weak
- B Selfish
- C Useless
- D Stubborn

Answer: A

Question 81

Select the wrongly spelt word.

- A Inevitable
- B Intelligence
- C Idiosyncrasy

D Incredible

Answer: C

Instructions

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No substitution required.

Question 82

A well-known animal living in Antarctica are a penguins.

- A is a penguin
- B No substitution required
- C is the penguin
- D are penguin

Answer: C

Question 83

The weather reports is prepared by the Meteorological Department of the Government.

- A prepared
- B is prepare
- C are prepared
- D No substitution required

Answer: C

Instructions

For the following questions answer them individually

Question 84

Select the most appropriate word to fill in the blank.
I will write a letter to you..... the dates of the programme.

- A urging
- B indicating
- C involving
- D propagating

Answer: B

Instructions

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 number.

Passage:

Orissa was hit by a cyclone with a wind speed of 200 km/h on 18 October 1999. The cyclone (1)..... 45,000 houses making 7,00,000 people homeless. (2)..... 29 October the same year, a second cyclone (3)..... a wind speed of 260 km/h hit Orissa again. It was (4)..... by water waves about 9 metre high. Thousands of people (5)..... their lives. Property worth crores of rupees was destroyed.

Question 85

Select the most appropriate option that will fill in the blank number 1.

- A smashed
- B burst
- C exploded
- D crashed

Answer: A

Question 86

Select the most appropriate option that will fill in the blank number 2.

- A In
- B From
- C By
- D On

Answer: D

Question 87

Select the most appropriate option that will fill in the blank number 3.

- A in
- B from
- C of
- D with

Answer: D

Question 88

Select the most appropriate option that will fill in the blank number 4.

- A accompanied
- B increased

- C started
- D furnished

Answer: A

Question 89

Select the most appropriate option that will fill in the blank number 5.

- A gave
- B left
- C finished
- D lost

Answer: D

Instructions

For the following questions answer them individually

Question 90

Select the antonym of the given word.

FLOOD

- A Overflow
- B Drought
- C Outpouring
- D Abundance

Answer: B

Question 91

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No substitution required.

Animals adapt themselves for survive in the conditions in which they live.

- A to survive in
- B by surviving in
- C No substitution required
- D for survival on

Answer: A

Question 92

Select the most appropriate word to fill in the blank.

Emperors need more resources _____ kings because empires are larger than kingdoms.

- A than
- B of
- C as
- D for

Answer: A

Question 93

Identify the segment in the sentence which contains the grammatical error from the given options.
When food gets spoil, it produces a foul smell.

- A When food
- B a foul smell
- C it produces
- D get spoil

Answer: D

Question 94

Identify the segment in the sentence which contains the grammatical error from the given options.
The Qutub Minar in Delhi, the world heritage site, is more than 1600 years old.

- A the world heritage site
- B The Qutub Minar
- C is more than
- D 1600 years old

Answer: A

Instructions

Select the word which means the same as the group of words given.

Question 95

A person who is blamed for something that someone else has done.

- A Volunteer
- B Scapegoat
- C Athlete
- D Culprit

Answer: B

Question 96

A person who knows and is able to use several languages.

- A Polygamist
- B Bilingual
- C Agnostic
- D Polyglot

Answer: D

Instructions

For the following questions answer them individually

Question 97

Select the most appropriate word to fill in the blank.

The blue whale has the largest tongue which can weigh.....an elephant.

- A Many more as
- B as much as
- C much
- D more as

Answer: B

Question 98

Select the wrongly spelt word.

- A Inevitable
- B Irresistible
- C Incredible
- D Incidentally

Answer: D

Question 99

Select the synonym of the given word.

RELISH

- A Enjoy
- B Hate
- C Detest
- D Dislike

Answer: A

Question 100

Select the synonym of the given word.

STUBBORN

A Obstinate

B Adaptable

C Cooperative

D Obedient

Answer: A

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