



IBPS RRB Clerk 2017

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Instructions

What value should come in the place of question mark (?) in the following questions?

Question 1

$$3.3+13.33+31.13+13.31+1.3=?$$

- A 64.31
- B 62.37
- C 64.47
- D 62.17
- E None of these

Answer: B

Explanation:

After adding the given numbers, we can see that answer will be equal to B i.e. 62.37

One can solve it faster by adding 31.13 and 13.31 first and that will be 44.44, after that we will be adding 17.93, hence answer will be 62.37

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Question 2

$$(16)^2 + (21)^2 - (13)^2 + ? = (25)^2$$

- A 67
- B 32
- C 81
- D 97
- E None of these

Answer: D

Explanation:

First we calculate $21^2 - 13^2$ through $(a-b)(a+b)$ hence, it will be $34 \times 8 = 272$

Now answer will be = $625 - (272+256)$

Question 3

$$47 + 345 \div 15 \times 2=?$$

- A 68
- B 93
- C 59
- D 71
- E None of these

Answer: B

Explanation:

As we know from the BODMAS method that first divide sign has to be solved then multiplication and then remaining.

Hence, equation will become $47 \div 46 = 93$

Question 4

73% of 5800 - 69% of 240 = ?

- A 4608.3
- B 4210.8
- C 4008.4
- D 4680.4
- E None of these

Answer: E

Explanation:

73% of 5800 = $(70+3)\%$ of 5800 = $4060+174 = 4234$

69% of 240 = $(70-1)\%$ of 240 = $168-2.4 = 165.6$

Hence, answer will be = $4234 - 165.6 = 4068.4$

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Question 5

$\left(\frac{17}{119} \times \frac{98}{14}\right)^2 = ?$

- A 5
- B 7
- C 3
- D 9
- E None of these

Answer: E

Explanation:

As we can see in the given equation $119 = 17 \times 7$ and $98 = 14 \times 7$

Hence, answer will be = 1

Question 6

$3.2 \times 2.1 \times 1.6 = ?$

- A 12.732
- B 10.752
- C 17.520
- D 15.270

E None of these

Answer: B

Explanation:

We can write 3.2 as 1.6×2

Then equation will be $1.6 \times 1.6 \times 4.2 = 2.56 \times 4.2 = 10.75$

Question 7

$\frac{7}{4}$ of $\frac{2}{28}$ of $\frac{8}{9}$ of 567 = ?

A 76

B 91

C 63

D 82

E None of these

Answer: C

Explanation:

As we can see in the given equation that after cancellation of various factors we will get $\frac{8}{9}$ of 567 = 504

$504 \times \frac{7}{4} = 882$

$882 \times \frac{2}{28} = 63$

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Question 8

$65 \times 15 \div ? = 195$

A 5

B 2

C 1

D 6

E None of these

Answer: A

Explanation:

As we can see from the given equation that answer will be = $\frac{65 \times 15}{195} = 5$

Question 9

204% of ? = 1848.24

A 517

B 784

C 321

D 906

E None of these

Answer: D

Explanation:

After some manipulation we can see that answer will be = $\frac{1848.24}{2.04} = 906$ (As 204% can be written as 2.04)

Question 10

$$9786 - 4321 + 5053 = ? - 3727$$

A 14245

B 14524

C 14452

D 14254

E None of these

Answer: A

Explanation:

As we can see from the given equation that answer will be = $9786 - 4321 + 5053 + 3727 = 14245$

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Question 11

$$\frac{17}{24} \div \frac{68}{24} \div \frac{380}{95} = (?)^2$$

A 4

B 8

C 6

D 9

E None of these

Answer: E

Explanation:

As we can see that equation can be written as $\left(\frac{17}{24} \times \frac{24}{68}\right) \times \frac{95}{380}$

Hence, answer will be $\frac{1}{4}$

Question 12

$$\sqrt{324} + \sqrt{1296} = ?$$

A 52

B 44

C 54

D 42

E None of these

Answer: C

Explanation:

As we can see that $\sqrt{324} = 18$

and $\sqrt{1296} = 36$

Hence, answer will be = $18+36 = 54$

Question 13

$23+636\div 12-14=?$

- A 41
- B 53
- C 62
- D 78
- E None of these

Answer: C

Explanation:

As we know that first divide sign should be solved

Hence, $636\div 12 = 53$

So answer will be = $23+53-14 = 62$

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Question 14

$\frac{9}{5}\text{of}\frac{265}{513}\text{of } ? = 159$

- A 171
- B 198
- C 215
- D 143
- E None of these

Answer: A

Explanation:

Answer can be calculated as $\frac{5}{9} \times \frac{513}{265} \times 159 = 57 \times 3 = 171$

Question 15

$6.5\div 0.5\times 2-4=?$

- A 31
- B 19
- C 22
- D 27
- E None of these

Answer: C

Explanation:

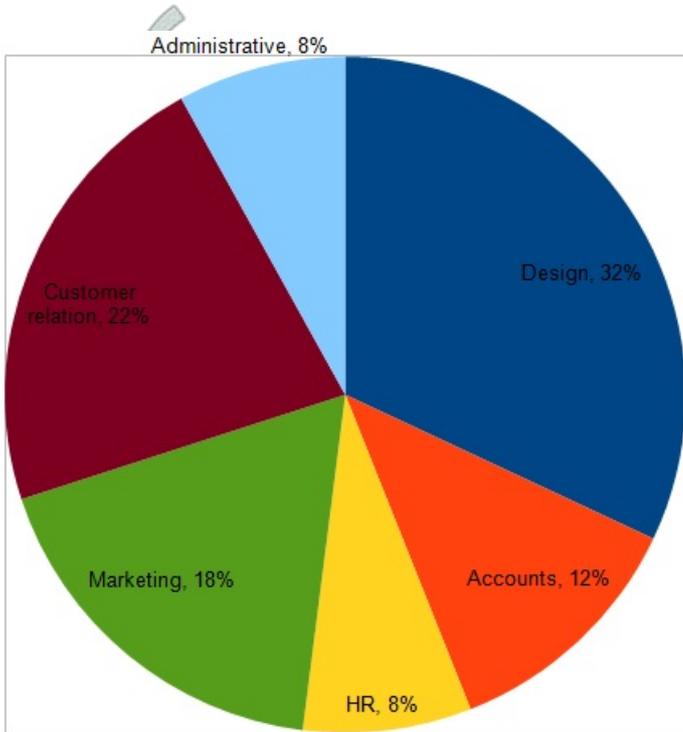
The given equation can be simplified as $6.5 \times 4 - 4 = 22$

Instructions

Study the following graph carefully and answer the question that follows....

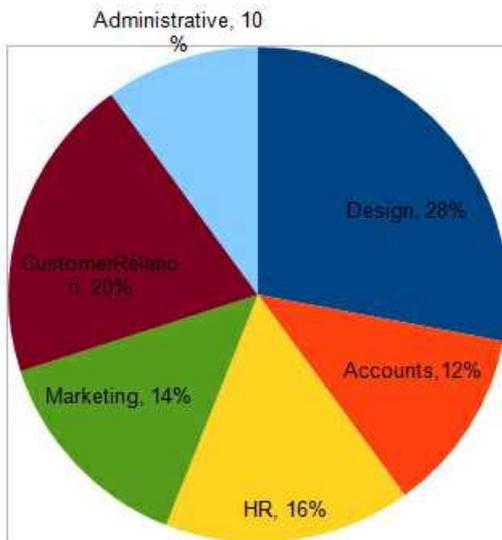
Percentage of employees in different department of a company

Total No. Of employees=4500



Percentage of females in each department in the same company

Total No of females in the organisation=2000



Question 16

What is the total number of males from Design, Customer Relation and HR departments together ?

- A 1550
- B 1510
- C 1540
- D 1580
- E None of these

Answer: B

Explanation:

No. of males in Design = Total employees in Design - No. of females in Design = 32% of 4500 - 28% of 2000 = 880
 Similarly, males in customer relation=590
 males in HR=40
 Total no. of males = 1510

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Question 17

What is the ratio of number of males in HR department of the number of males in Accounts department respectively ?

- A 3:17
- B 4:15
- C 2:15
- D 2:13
- E None of these

Answer: C

Explanation:

No. of employees in HR Department = 8% of $4500 = 360$

No. of female employees in HR Dept = 16% of $2000 = 320$

No. of male employees = $360 - 320 = 40$

No. of employees in Accounts Dept. = 12% of $4500 = 540$

No. of female employees in Accounts = 12% of $2000 = 240$

No. of male employees = $540 - 240 = 300$

Ratio of males in HR to Accounts = $40/300 = 2/15$

Question 18

The number of females in the Marketing department are approximately what per cent of the total employees in marketing and Customer Relation Departments together ?

- A 26
- B 36
- C 6
- D 46
- E None of these

Answer: E

Explanation:

The number of females in Marketing Dept = 14% of $2000 = 280$

Total no. of employees in Marketing and Customer relation together = 40% of $4500 = 1800$

The number of females in the Marketing department per cent of the total employees in marketing and Customer Relation Departments together = $(280/1800) \times 100 = 15.55 \sim 16\%$

Question 19

What is the respective ratio of numbers employees in Administrative department to the numbers of males in the same department ?

- A 9:4
- B 8:3
- C 7:2
- D 8:5
- E None of these

Answer: A

Explanation:

Total no. of employees in Administrative department = 8% of $4500 = 360$

No. of female employees in same Dept. = 10% of $2000 = 200$

No. of male employees = 160

The ratio = $360/160 = 9/4$

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Question 20

The total number of females are what per cent of the total number males in the organisation ?

- A 90
- B 70
- C 80
- D 60
- E None of these

Answer: C

Explanation:

The total no. of males = $4500 - 2000 = 2500$

Ratio of number of females to number of males = $2000 / 2500 = .8$

Percent of females to males = $.8 * 100 = 80\%$

Instructions

For the following questions answer them individually

Question 21

37, ?, 103, 169, 257, 367

- A 61
- B 59
- C 67
- D 55
- E 71

Answer: B

Explanation:

$$37 + 22 = 59$$

$$59 + 44 = 103$$

$$103 + 66 = 169$$

$$169 + 88 = 257$$

$$257 + 110 = 367$$

Hence, the missing number is 59

Question 22

4, 6, 34, ?, 504, 1234

- A 194
- B 160
- C 186
- D 156
- E 172

Answer: B

Explanation:

$$6 - 4 = 2 = 1^3 + 1$$

$$34 - 6 = 28 = 3^3 + 1$$

$$1234 - 504 = 730 = 9^3 + 1$$

The pattern here is difference between consecutive terms is $1^3 + 1, 3^3 + 1, 5^3 + 1, 7^3 + 1, 9^3 + 1$

Therefore The third term is $34 + 5^3 + 1 = 160$

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Question 23

3, ?, 14, 55, 274, 1643

A 11

B 5

C 6

D 8

E 7

Answer: B

Explanation:

$$3 \times 2 - 1 = 5$$

$$5 \times 3 - 1 = 14$$

$$14 \times 4 - 1 = 55$$

$$55 \times 5 - 1 = 274$$

$$274 \times 5 - 1 = 1643$$

Hence, the missing number is 5

Question 24

960, 839, 758, 709, ?, 675

A 696

B 700

C 688

D 678

E 684

Answer: E

Explanation:

$$960 - 11^2 = 839$$

$$839 - 9^2 = 758$$

$$758 - 7^2 = 709$$

$$709 - 5^2 = 684$$

$$684 - 3^2 = 675$$

Hence, the missing number is 684

Question 25

61, 72, ?, 73, 59, 74, 58

- A 70
- B 60
- C 71
- D 62
- E 63

Answer: B

Explanation:

For first, third, fifth and seventh number:

$$61-1 = 60$$

$$60-1 = 59$$

$$59-1 = 58$$

For fourth and sixth number:

$$72+1 = 73$$

$$73+1 = 74$$

Hence, answer will be B

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Question 26

The present ages of A, B and C are in the ratio of 8: 14: 22 respectively. The present ages of B, C and D are in ratio of 21: 33: 44 respectively. Which of the following represents the ratio of the present ages of A, B, C and D respectively ?

- A 12: 21: 33: 44
- B 12: 22: 31: 44
- C 12: 21: 36: 44
- D Cannot be determined
- E None of these

Answer: A

Explanation:

Ratio of A:B:C = 8:14:22 = 12:21:33

So, the required ratio of ages of A, B, C and D is 12 : 21 : 33 : 44.

Question 27

If the numerator of certain fraction increased by 100% and the denominator is increased by 200% the new fraction thus formed is $\frac{4}{21}$ What is the original fraction ?

- A $\frac{2}{7}$
- B $\frac{3}{7}$

- C $\frac{2}{5}$
- D $\frac{4}{7}$
- E None of these

Answer: A

Explanation:

If the numerator (assume to be x) is increased by 100%, it becomes 2x and the denominator (assume to be y) is increased by 200%, it becomes 3y.

The new fraction is $\frac{4}{21} = \frac{2x}{3y}$

Hence, simplifying we get fraction has $\frac{2}{7}$

Question 28

The average speed of a train is 3 times the average speed of a car . The car covers a distance of 520 kms in 8 hours .how much distance will the train cover in 13 hours ?

- A 2553 kms
- B 2585 kms
- C 2355 kms
- D 2535 kms
- E None of these

Answer: D

Explanation:

Let speed of train be x and speed of car be y.

Car covers 520km in 8 hrs, it's speed= $520/8 = 65\text{km/hr}$

Speed of train = $3 * 65 = 195\text{km/hr}$

Distance covered by train in 13 hrs = $13 * 195 = 2535\text{km}$

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Question 29

A rope makes 125 rounds of a cylinder with base radius 15 cm. How many times can it go round a cylinder with base radius 25 cm?

- A 100
- B 75
- C 80
- D 65
- E None of these

Answer: B

Explanation:

Let the required number of rounds be x.

More radius, less rounds (Inverse Proportion)

Radius in cm == Round

$$15 = 125$$

$$25 = x$$

$$\Rightarrow x = (15 * 125) / 25 = 75 \text{ rounds}$$

Question 30

A man riding a bicycle, completes one lap of a circular field along its circumference at the speed of 14.4 km/h in 1 min 28 s. What is the area of the field?

A 7958 m^2

B 9856 m^2

C 8842 m^2

D Cannot be determined

E None of these

Answer: B

Explanation:

Distance travelled in 1 min 28 sec = Speed * time

$$\text{Speed} = 14.4 \text{ km/hr} = 14.4 * 5 / 18 \text{ m/s} = 4 \text{ m/s}$$

$$\text{Distance} = 4 * 88 = 352$$

$$2\pi r = 352$$

$$r = 56$$

$$\text{Area} = \pi r^2 = 22 * 56 * 56 / 7 = 9856$$

Question 31

What is the greatest number which divides 1070 and 1265 and leaves remainders 3 and 4 respectively?

A 91

B 93

C 95

D 97

E 101

Answer: D

Explanation:

The required number is the HCF of $(1070 - 3, 1265 - 4) = \text{HCF of } (1067, 1261)$

$$1067 = 11 * 97 \text{ and } 1261 = 13 * 97$$

So, HCF = 97

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Question 32

In a church, the first bell rings at intervals of 2 seconds, the second bell rings at intervals of 4 seconds and so on till the fifth bell, which rings at intervals of 10 seconds. How many times do all the bells ring together in a half-an-hour period?

A 60

B 45

- C 120
- D 15
- E 30

Answer: D

Explanation:

The LCM of 2, 4, 6, 8 and 10 is 120. So, the bells rings together once every 2 minutes. So, they ring together 15 times in a half-an-hour period.

Question 33

Mr.Nair's monthly salary is rs 22,500. He took a loan of rs 30,000 on simple interest for 3 years at the rate of 5 p.c.p.a. The amount that he will be paying as simple interest in 3 years is what percent of his monthly salary ?

- A 10
- B 18
- C 20
- D 25
- E None of these

Answer: C

Explanation:

Interest = (Principal * interest * No. of years)

$$\text{Interest} = (30,000 * 3 * 5) / 100$$

$$\text{Interest} = 4,500$$

$$x\% \text{ of } 22,500 = 4,500$$

$$x = (4500 / 22,500) * 100$$

$$x = 20$$

Question 34

A certain sum P when invested for four years at the rate of 10% p.a. simple interest, amounts to 22,960/. What will be the interest earned when (P + 600) is invested in the same rate of simple interest p.a. for four years ?

- A 6,400/
- B 6,800/
- C 6,500/
- D 6,600'
- E 6,900/

Answer: B

Explanation:

$$\text{Amount under simple interest} = \frac{P \times R \times T}{100} + P$$

$$\text{Given : } \frac{P \times 10 \times 4}{100} + P = 22,960$$

$$\Rightarrow \frac{2P}{5} + P = 22,960$$

$$\Rightarrow \frac{7P}{5} = 22,960$$

$$\Rightarrow P = \frac{22,960 \times 5}{7} = 16,400$$

Now, new amount invested = $16,400 + 600 = 17,000$

$$\therefore \text{S.I.} = \frac{17,000 \times 10 \times 4}{100}$$

$$= 170 \times 4 = \text{Rs. } 6,800$$

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Question 35

The interest earned by investing a sum of money in scheme A for two years is 450/- more than the interest earned when the same sum is invested in scheme B for the, same period. If schemes A and B both offer compound interest (compounded annually) at 30% p.a. and 20% p.a. respectively, what was the sum invested in each scheme ?

A 3,600/-

B 1,800/-

C 1,600/-

D 2,200/-

E 1,200/-

Answer: B

Explanation:

Let the amount invested in each scheme = Rs. P

$$\text{Scheme A : C.I.} = P \left[\left(1 + \frac{R}{100} \right)^T - 1 \right]$$

$$= P \left[\left(1 + \frac{30}{100} \right)^2 - 1 \right]$$

$$= P \left[\left(\frac{13}{10} \right)^2 - 1 \right] = P \left[\frac{169}{100} - 1 \right]$$

$$= \frac{69P}{100}$$

$$\text{Scheme B : C.I.} = P \left[\left(1 + \frac{20}{100} \right)^2 - 1 \right]$$

$$= P \left[\left(\frac{12}{10} \right)^2 - 1 \right] = P \left[\frac{144}{100} - 1 \right]$$

$$= \frac{44P}{100}$$

Acc to ques,

$$\Rightarrow \left(\frac{69P}{100} \right) - \left(\frac{44P}{100} \right) = 450$$

$$\Rightarrow \frac{25P}{100} = 450$$

$$\Rightarrow P = 450 \times 4 = \text{Rs. } 1,800$$

Question 36

3 pipes when opened for 3 hours can fill 3 buckets. How many buckets can 2 pipes open for 2 hours approximately fill?

A $\frac{2}{3}$ buckets

B 2 buckets

C 1 bucket

D $\frac{4}{3}$ buckets

E None of the above.

Answer: D

Explanation:

2 pipes open for 2 hours will fill $\frac{2}{3} * \frac{2}{3} * 3$ buckets = 4/3 buckets.

Question 37

Yesterday Shweta completed 300 units of work at the rate of 15 units per minute. Today she completed the same units of work but her speed

was 40% faster than yesterday. What is the approximate difference in the time she took to complete the work yesterday and the time she took today ?

- A 16 min
- B 26 min
- C 46 min
- D 36 min
- E 6 min

Answer: E

Explanation:

Time taken by Shweta to complete 300 units of work at a speed of 15units/min = $300/15 = 20$

New speed = $1.4 * 15 = 21$ units/min

Time taken by Shweta to complete 300 units of work at a speed of 21units/min = $300/21 \sim 14$

Time difference = 6 minutes

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Question 38

A shopkeeper labelled the price of the articles so as to earn a profit of 30% on the cost price. He then sold the articles by offering a discount of 10% on the labelled price what is the actual per profit earned in the deal ?

- A 18%
- B 15%
- C 20%
- D Cannot be determined
- E None of these

Answer: E

Explanation:

Let the cost price be x.

As per given condition, the labelled price will be 1.3x.

Discounted price will be $0.9 * 1.3x = 1.17x$

Now, Profit = Price at which item was sold - Cost Price = $1.17x - x = .17x = 17%$ of Cost price.

Hence, profit is 17%.

Question 39

Pure milk costs Rs. 16 per litre. After adding water the milkman sells the mixture Rs. 15 per litre and thereby makes a profit of 25%. In what respective ratio does he mix milk with water?

- A 3: 1
- B 4: 3
- C 3: 2
- D 5: 3
- E 4: 1

Answer: A

Explanation:

Selling price is Rs 15 and Profit is 25%

$$\Rightarrow \text{Cost Price} = \frac{15}{1.25} = \text{Rs } 12$$

\Rightarrow In every litre of solution, there is Rs 12 worth milk.

But the actual cost of milk is Rs 16.

$$\Rightarrow \text{Ratio} = 12 : 16 = 3 : 4$$

Question 40

Harish, Dilip and Asha start running around a circular stadium and complete one round in 27 s, 9 s and 36 s respectively. In how much time will they meet again at the same point?

- A 1 min 48 s
- B 2 min 36 s
- C 3 min 11 s
- D 2 min 25 s
- E None of these

Answer: A

Explanation:

Least common multiple of 36, 27 and 9 is 108.

Hence Harish, Dilip and Asha will meet at 108 second i.e 1 minute and 48 seconds.

Therefore, the correct option is option A.

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Reasoning

Instructions

In each of the following questions, relationship between different elements is shown in the statements. The statements are followed by two conclusions numbered I and II. Study the conclusions based on the given statements and select the appropriate answer.

Give answer (a) if only Conclusion I is true

Give answer (b) if neither Conclusion I nor Conclusion II is true

Give answer (c) if only Conclusion II is true

Give answer (d) if both Conclusion I and Conclusion II are true

Give answer (e) if either Conclusion I or Conclusion II is true

Question 41

Statements

$M > A \geq B = Q \leq P < J \leq Y = Z \geq A > X$

Conclusions:

- I. $B < Y$
- II. $X \geq J$

- A if only Conclusion I is true
- B if neither Conclusion I nor Conclusion II is true
- C if only Conclusion II is true
- D if both Conclusion I and Conclusion II are true
- E if either Conclusion I or Conclusion II is true

Answer: A

Explanation:

Statement : $M > A \geq B = Q \leq P < J \leq Y = Z \geq A > X$

Conclusions:

- I. $B < Y$: true
- II. $X \geq J$: false

Thus, only Conclusion I is true.

=> Ans - (A)

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Instructions

In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four as your answer.

Question 42

The two parties have to..... each other's sensibilities and..... towards a win win merger.

- A seek; move
- B develop; look
- C respect; work
- D accept; develop

Answer: C

Instructions

For the following questions answer them individually

Question 43

If the cost price of 10 articles is equal to the selling price of 8 articles, then gain per cent is

- A 10%
- B 8%
- C 50%

D 25%

Answer: D

Explanation:

Given, $10CP = 8SP$. So, $SP = \frac{10}{8} \times CP$
Gain% = $\frac{SP - CP}{CP} \times 100$
= $\frac{\frac{10}{8} \times CP - CP}{CP} \times 100$
= 25%

Question 44

If the following fractions are arranged in an ascending order (from left to right), which of them will be second from the right end?
 $\frac{2}{9}, \frac{4}{7}, \frac{12}{17}, \frac{7}{13}, \frac{5}{11}$

A $\frac{4}{7}$

B $\frac{12}{17}$

C $\frac{7}{13}$

D $\frac{2}{9}$

E $\frac{5}{11}$

Answer: A

Explanation:

$\frac{2}{9}, \frac{4}{7}, \frac{12}{17}, \frac{7}{13}, \frac{5}{11}$

0.22, 0.57, 0.70, 0.53, 0.45

Arranging in ascending order

0.22, 0.45, 0.53, 0.57, 0.70

Second from right = 0.57 = $\frac{4}{7}$ (A)

Question 45

A truck covers a distance of 420 km in a certain amount of time at the speed of 70 kmph. What is the average speed of the hike that travels a distance of 36 km less than the truck in the same time ?

A 62 kmph

B 64 kmph

C 66 kmph

D 68 kmph

E None of these

Answer: B

Explanation:

Distance covered by Hike = $420 - 36 = 384$ km

Time taken by Hike = $\frac{420}{70} = 6$ hrs

Speed of Hike = $\frac{384}{6} = 64$ kmph

Instructions

Study the following information carefully and answer the question given below:

A, M, P, J, H D and K are seven students of a school. They study in Std. III, IV, and V with at least two in any one standard. Each of them has different choice of colour from blue, red, green, yellow, black, white and brown not necessarily in the same order. M studies in Std.

IV with only D who likes red colour. A studies in Std. V and does not like either blue or green. H does not study in Std. V and likes yellow colour. P and J study in the same Std. but not with A. None of these who study in Std.III likes white. The one who likes black studies in Std. IV. J likes brown colour. P does not like blue colour.

Question 46

Which colour does P like ?

- A Green
- B Blue
- C Blue or Green
- D Data inadequate
- E None of these

Answer: A

Explanation:

M studies in Std. IV with only D who likes red colour

A studies in Std. V and does not like either blue or green

P and J study in the same Std. but not with A means P and J study in standard 3

J likes brown colour

The one who likes black studies in Std. IV. means M likes black colour

P does not like blue colour means K who studies in standard 5 likes blue colour

A likes white and P likes green. H who likes yellow studies in standard 3.

This can be arranged as,

Standard 3 -> P(Green) , J(Brown) , H(Yellow)

Standard 4 -> M(Black) , D(Red)

Standard 5 -> A(White) , K(Blue)

Hence P likes Green.

Question 47

Which of the following combinations is definitely correct ?

- A III-H-Black
- B IV-K-Blue
- C V-A-Blue
- D IV-D-Green
- E All are incorrect

Answer: E

Explanation:

M studies in Std. IV with only D who likes red colour

A studies in Std. V and does not like either blue or green

P and J study in the same Std. but not with A means P and J study in standard 3

J likes brown colour

The one who likes black studies in Std. IV. means M likes black colour

P does not like blue colour means K who studies in standard 5 likes blue colour

A likes white and P likes green. H who likes yellow studies in standard 3.

This can be arranged as,

Standard 3 -> P(Green), J(Brown), H(Yellow)

Standard 4 -> M(Black), D(Red)

Standard 5 -> A(White), K(Blue)

Hence all the given combinations are incorrect.

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Question 48

Which colour does A like ?

- A Brown
- B Red
- C Blue or Green
- D Data inadequate
- E None of these

Answer: E

Explanation:

M studies in Std. IV with only D who likes red colour

A studies in Std. V and does not like either blue or green

P and J study in the same Std. but not with A means P and J study in standard 3

J likes brown colour

The one who likes black studies in Std. IV. means M likes black colour

P does not like blue colour means K who studies in standard 5 likes blue colour

A likes white and P likes green. H who likes yellow studies in standard 3.

This can be arranged as,

Standard 3 -> P(Green), J(Brown), H(Yellow)

Standard 4 -> M(Black), D(Red)

Standard 5 -> A(White), K(Blue)

Hence A likes white.

Question 49

Which colour does K like ?

- A Green
- B Blue
- C Blue or Green
- D Data inadequate
- E None of these

Answer: B

Explanation:

M studies in Std. IV with only D who likes red colour

A studies in Std. V and does not like either blue or green

P and J study in the same Std. but not with A means P and J study in standard 3

J likes brown colour

The one who likes black studies in Std. IV. means M likes black colour

P does not like blue colour means K who studies in standard 5 likes blue colour

A likes white and P likes green. H who likes yellow studies in standard 3.

This can be arranged as,

Standard 3 -> P(Green) , J(Brown) , H(Yellow)

Standard 4 -> M(Black) , D(Red)

Standard 5 -> A(White) , K(Blue)

Hence K likes Blue.

Question 50

In which std. do three of them study ?

- A III only
- B V only
- C III or V only
- D Data inadequate
- E None of these

Answer: A

Explanation:

M studies in Std. IV with only D who likes red colour

A studies in Std. V and does not like either blue or green

P and J study in the same Std. but not with A means P and J study in standard 3

J likes brown colour

The one who likes black studies in Std. IV. means M likes black colour

P does not like blue colour means K who studies in standard 5 likes blue colour

A likes white and P likes green. H who likes yellow studies in standard 3.

This can be arranged as,

Standard 3 -> P(Green) , J(Brown) , H(Yellow)

Standard 4 -> M(Black) , D(Red)

Standard 5 -> A(White) , K(Blue)

Hence three people study only in standard 3.

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Instructions

Study the following information carefully and answer the questions given below:

Eight friends- J, K, L, M, N, O, P and Q - live on eight different floors of a building but not necessarily in the same order. The lower most floor of the building is numbered one, the one above that is numbered two and so on until the topmost floor is numbered eight. J lives on floor numbered four. Only two people live between J and O. Only one person lives between O and L. M lives immediately above Q. M lives on an even numbered floor. Only one person lives between Q and N. Only one person lives between M and K. K does not live on the top floor, O lives at first floor

Question 51

Four of the following five are alike as per the given arrangement and thus form a group. Which of the following does not belong to that group?

- A NQ
- B OJ
- C PN
- D KL
- E MN

Answer: A

Explanation:

J lives on floor numbered four and only two people live between J and O, => O lives on 1st floor.

Only one person lives between O and L, => L lives on 3rd floor.

M lives on even numbered floor and immediately above Q, => M lives on 8th floor and Q lives on 7th floor.

Only one person lives between Q and N, => Q lives on 5th floor.

Similarly, K lives on 6th floor. The arrangement :

Floor	Person
8	M
7	Q
6	K
5	N
4	J
3	L
2	P
1	O

The pattern here is that except NQ, two people are living between each of the mentioned pairs.

=> Ans - (A)

Question 52

What is the position of M?

- A M lives on the fifth floor
- B M lives on sixth floor
- C M lives on second floor
- D M lives on topmost floor
- E M lives on fourth floor

Answer: D

Explanation:

J lives on floor numbered four and only two people live between J and O, => O lives on 1st floor.

Only one person lives between O and L, => L lives on 3rd floor.

M lives on even numbered floor and immediately above Q, => M lives on 8th floor and Q lives on 7th floor.

Only one person lives between Q and N,

Similarly, K lives on 6th floor. The arrangement :

Floor	Person
8	M
7	Q
6	K
5	N
4	J
3	L
2	P
1	O

Clearly, M lives on topmost i.e., 8th floor.

=> Ans - (D)

Question 53

Who amongst the following lives exactly in the middle of the friends who lives fifth from the bottom and second from the top?

- A Q
- B K
- C L
- D N
- E M

Answer: B

Explanation:

J lives on floor numbered four and only two people live between J and O, => O lives on 1st floor.

Only one person lives between O and L, => L lives on 3rd floor.

M lives on even numbered floor and immediately above Q, => M lives on 8th floor and Q lives on 7th floor.

Only one person lives between Q and N, => Q lives on 5th floor.

Similarly, K lives on 6th floor. The arrangement :

Floor	Person
8	M
7	Q
6	K
5	N
4	J
3	L
2	P
1	O

Person who lives 5th from bottom = N

Person who lives 2nd from top = Q

K is living between N and Q.

=> Ans - (B)

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Question 54

Which of the following statements is true regarding N?

- A N lives on sixth numbered floor
- B Only two persons live between N and L
- C Only two persons live between N and M
- D N lives on fifth from the topmost floor
- E Q is an immediate neighbour of N

Answer: C

Explanation:

J lives on floor numbered four and only two people live between J and O, => O lives on 1st floor.

Only one person lives between O and L, => L lives on 3rd floor.

M lives on even numbered floor and immediately above Q, => M lives on 8th floor and Q lives on 7th floor.

Only one person lives between Q and N, => Q lives on 5th floor.

Similarly, K lives on 6th floor. The arrangement :

Floor	Person
8	M
7	Q
6	K
5	N
4	J
3	L
2	P
1	O

The only true statement is that only 2 people live between N and M.

=> Ans - (C)

Question 55

If all the given persons are made to live in an alphabetical order from bottom to top, the positions of how many of them will remain unchanged?

- A Three
- B None
- C Two
- D One
- E Four

Answer: C

Explanation:

J lives on floor numbered four and only two people live between J and O, => O lives on 1st floor.

Only one person lives between O and L, => L lives on 3rd floor.

M lives on even numbered floor and immediately above Q, => M lives on 8th floor and Q lives on 7th floor.

Only one person lives between Q and N, => Q lives on 5th floor.

Similarly, K lives on 6th floor. The arrangement :

Floor	Person
8	M
7	Q
6	K
5	N
4	J
3	L
2	P
1	O

If all the persons are made to live in alphabetical order from bottom to top i.e., J on 1st floor , K on 2nd floor , L on 3rd floor and so on.

Thus, positions of only 2 persons i.e., L and N will remain unchanged.

=> Ans - (C)

Instructions

Study the following information to answer the given questions:

In a certain code, 'always create new ideas ' is written as 'ba ri sha gi' ideas and new thoughts' is written as 'fa gi ma ri' 'create thoughts and insight' is written as 'ma jo ba fa', and 'new and better solutions' is written as 'ki ri to fa'.

Question 56

What is the code for 'ideas' ?

- A sha
- B ba
- C gi
- D ma
- E Cannot be determined

Answer: C

Explanation:

By analysing the relation between the given sentences and the codes we can deduce following codes and their words.

ideas=gi,

and=fa,

new=ri,

create=ba,

thoughts=ma,

insights=jo,

always= sha,

better solution= ki so.

Hence, the correct option is C.

Question 57

What does 'fa' stand for ?

- A thoughts
- B insights
- C new
- D and
- E solutions

Answer: D

Explanation:

By analysing the relation between the given sentences and the codes we can deduce following codes and their words.

ideas=gi,

and=fa,

new=ri,

create=ba,

thoughts=ma,

insights=jo,

always= sha,

better solution= ki so.

Hence, and stands for fa. Option D is correct.

Question 58

'fa lo ba' could be a code for which of the following ?

- A thoughts and action
- B create and innovate
- C ideas and thoughts
- D create new solutions
- E always better ideas

Answer: B

Explanation:

By analysing the relation between the given sentences and the codes we can deduce following codes and their words.

ideas=gi,

and=fa,

new=ri,

create=ba,

thoughts=ma,

insights=jo,

always= sha,

better solution= ki so.

Here, fa= and and ba= create. Only 'innovate (lo)' is new word.

Hence, option B is correct.

Question 59

What is the code for 'new' ?

- A ki

- B ri
- C to
- D fa
- E ba

Answer: B

Explanation:

By analysing the relation between the given sentences and the codes we can deduce following codes and their words.

ideas=gi,
and=fa,
new=ri,
create=ba,
thoughts=ma,
insights=jo,
always= sha,
better solution= ki so.

Hence, option B is correct.

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Question 60

Which of the following may represent 'insights always better' ?

- A jo ki to
- B ki to ri
- C sha jo ri
- D to sha jo
- E sha to ba

Answer: D

Explanation:

By analysing the relation between the given sentences and the codes we can deduce following codes and their words.

ideas=gi,
and=fa,
new=ri,
create=ba,
thoughts=ma,
insights=jo,
always= sha,
solution= so,
better = to.

Hence, option D is correct.

Question 61

What is the code for 'thoughts' ?

- A ma
- B fa

- C ba
- D jo
- E Either jo or fa

Answer: A

Explanation:

By analysing the relation between the given sentences and the codes we can deduce following codes and their words.

ideas=gi,
and=fa,
new=ri,
create=ba,
thoughts=ma,
insights=jo,
always= sha,
solution= so.

Hence, option A is correct.

Instructions

For the following questions answer them individually

Question 62

Four of the following five are alike in a certain way and so form a group Which is the one that does not belong to that group ?

- A PM
- B EB
- C TQ
- D IF
- E VY

Answer: E

Explanation:

In options A, B, C and D the second letter is third to the left of the first letter in the English alphabet but in option D the second letter is third to the right of the first letter. Thus E is the odd one out.

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Instructions

In each of the question below are given three statement followed by two conclusions numbered I and II. You have to take the given statements to

be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the statements

disregarding commonly known facts.

Question 63

Statements:

- All petals are flowers.
- some flowers are not petals.
- some petals are colours.

Conclusions:

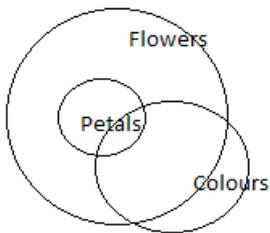
- I. Some flowers are colours.
- II. Some flowers are not colours.

- A If only conclusion I follows.
- B If only conclusion II follows.
- C If either conclusion I or conclusion II follows
- D If neither conclusion I nor conclusion II follows
- E If both conclusion I and II follow.

Answer: A

Explanation:

The data in Venn diagram format can be interpreted as:



Some flowers are colours. This conclusion can be drawn as there is intersection between Flowers and Colours set. All flowers can be colors. In a similar way all petals can be colors. Hence, only conclusion I follows.

Question 64

Statements:

- All desks are tables.
- Some tables are drawers.
- Some drawers are big.

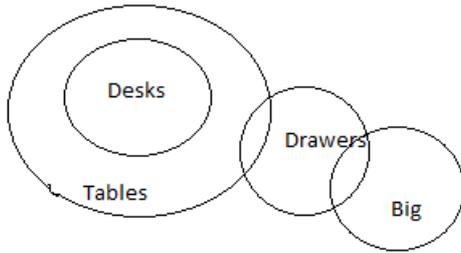
Conclusions:

- I. Some tables are big.
- II. No desk is adrawer.

- A If only conclusion I follows.
- B If only conclusion II follows.
- C If either conclusion I or conclusion II follows
- D If neither conclusion I nor conclusion II follows
- E If both conclusion I and II follow.

Answer: D

Explanation:



Some tables are big. This conclusion cannot be drawn. Big and Tables is disjoint set.

No desk is a drawer. This conclusion also cannot be drawn with surety as there might be intersection between Drawers and Desks

Both I and II do not follow.

Question 65

Statements:

All colleges are buildings.

All buildings are concrete

Some concrete are strong

Conclusions :

I. Some colleges are strong.

II. At least some strong are concrete.

A If only conclusion I follows.

B If only conclusion II follows.

C If either conclusion I or conclusion II follows

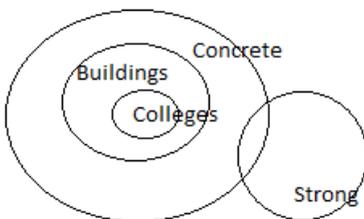
D If neither conclusion I nor conclusion II follows

E If both conclusion I and II follow.

Answer: B

Explanation:

The data can be interpreted in Venn diagram form as:



Some colleges are strong. We cannot draw this conclusion with assurance.

At least some strong are concrete. This conclusion can be drawn with surety as apparent from Venn diagram.

Only II follows. Option B is correct.

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Question 66

Statements :

Some trees are tall.

All tall are healthy.

All healthy are not tall.

Conclusion :

I. Some healthy are tall

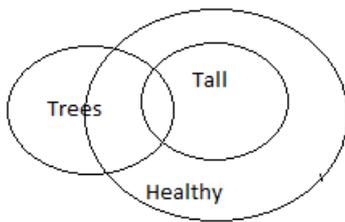
II . Some trees are not tall

- A If only conclusion I follows.
- B If only conclusion II follows.
- C If either conclusion I or conclusion II follows
- D If neither conclusion I nor conclusion II follows
- E If both conclusion I and II follow.

Answer: E

Explanation:

The given data can be interpreted as:



Some healthy are tall. This is correct conclusion drawn. Some trees are tall hence even there is a possibility that some trees are not tall so

Some trees are not tall. This is also correct conclusion as apparent from Venn diagram.

Both I and II follow.

Option E is correct.

Question 67

Statements :

All books are interesting.

All magazines are books.

Some interesting that are not books are journals.

Conclusions :

I. All books are journals.

II. All magazines are interesting.

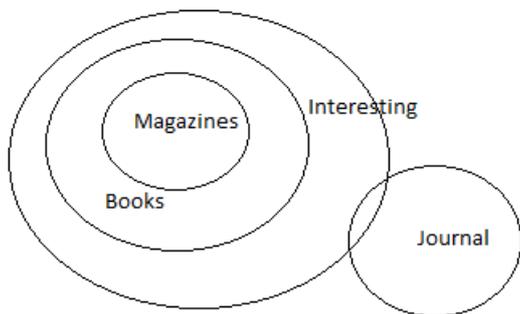
- A If only conclusion I follows.
- B If only conclusion II follows.
- C If either conclusion I or conclusion II follows
- D If neither conclusion I nor conclusion II follows

E If both conclusion I and II follow.

Answer: B

Explanation:

Data can be interpreted in Venn diagram form as:



All books are journals. This is a wrong conclusion as apparent from Venn diagram.

All magazines are interesting. This is correct conclusion as Magazines are subset of Interesting.

Option B is correct as only II follows.

Instructions

Observe the following series and answer the questions that follow:

PQORTSSOSTQOQRORSTOPPS"SQOTRP"RRSOTQ

Question 68

In the alphabets given in quotes, how many such pairs can be identified which have the same number of alphabets between them (both in the forward and backward directions) as in the alphabetical series?

A 0

B 1

C 2

D 3

E 4

Answer: A

Explanation:

There are no such pairs that are of equal separation as the English alphabets.

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Question 69

Which is the alphabet that is seventh to the right of the seventeenth alphabet from the right?

A O

B P

C Q

D R

E S

Answer: A

Explanation:

The seventeenth alphabet from the right is T. Seventh to its right is O.

Question 70

If the last 10 alphabets to the right are written in the reverse order, which would be the twenty fifth alphabet from the left?

A O

B P

C Q

D R

E S

Answer: C

Explanation:

If 10 alphabets to the right are reversed the 25 alphabets to the left are still unchanged. So, Q is the right option.

Question 71

How many Ps are there in the series that have both a vowel and a consonant on each side?

A 0

B 1

C 2

D 3

E 4

Answer: B

Explanation:

There is only one P with a vowel (O) and consonant (P) on each side.

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Question 72

How many Qs are there in the series that have a P adjacent to it?

A 0

B 1

C 2

D 3

E 4

Answer: B

Explanation:

There is one Q with a P adjacent to it.

Instructions

In each question below, a group of digits/symbols is given, followed by four combinations of letters numbered (1), (2), (3), and (4). You have to find out which of the combinations (1), (2), (3) and (4) correctly represents the group of digits/symbols based on the following coding system and the conditions those follow and mark the number of that combination as your answer. If none of the four combinations correctly represents the group of digits/symbols, mark (5) i.e., 'None of these' as the answer

Digit/Symbol 5 9 @ © 3 8 1 \$ % 4 2 6 * 7 \$\$\$\delta\$\$ #

Letter Code B E P A K D F H Q I R J U M V T

Conditions

- (a) If the first unit in the group is an even digit and the last unit is a symbol, both these are to be coded as the code for the symbol.
- (b) If the first unit in the group is an odd digit and the last unit is an even digit, their codes are to be unchanged.
- (c) If both the first and the last units in the group are symbols, both these are to be coded as 'X'.

Question 73

@91\$26

- A JEFHRP
- B PEFHRP
- C XEFHRX
- D PEFHRJ
- E None of these

Answer: D

Explanation:

Here, the first digit is symbol and the last digit is a number and therefore no conditions apply.

This @91\$26 can be coded as PEFHRJ.

The correct option is D.

Question 74

387#@9

- A KMDTAE
- B KDMATE
- C EDMTAK
- D KDMTAK
- E None of these

Answer: E

Explanation:

Here, the first digit is odd and last one is even, their is no change in the code.

Now, 387#@9 will be coded as KDMTAE.

But, none of the option match

Hence, the correct option is E i.e none of these.

Question 75

4@312\$\$\delta\$\$

- A VPKFRV
- B VPKFRI
- C XPKFRX
- D IPKFRV
- E None of these

Answer: A

Explanation:

The code starts with even digit and ends with symbol. Hence, the code for symbol will be used for both digit and symbol. Hence, the correct coding of 4@312\$\$\delta\$\$ will be VPKFRV. The correct option is A.

Question 76

%4187*

- A QIFDMU
- B UIFDMQ
- C XIFDMX
- D UIFDMU
- E None of these

Answer: C

Explanation:

The first and last in the groups are symbols and hence, both will be coded as 'X'. Therefore, %4187* will be coded as XIFDMX. The correct option is C.

Question 77

9124\$\$\delta\$\$

- A EFRIV
- B JFRIV
- C EFRIE
- D XFRIV
- E None of these

Answer: A

Explanation:

Here, the first in the group is odd digit and the last is a symbol and hence, no conditions apply. 9124\$\$\delta\$\$ will be coded as EFRIV. The correct option is A.

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Instructions

Study the following information carefully and answer the questions given below : Point A is 11 metre to the north of point B. Point C is 11 metre to the east of point B. Point D is 5 metre to the north of point C. Point E is 7 metre to the west of the point D. Point F is 9 metre to the north of point E. Point G is 4 metre to the west of point F.

Question 78

Point. D Is in which direction with respect to point F ?

- A North-East
- B South-East
- C South
- D North-West
- E East

Answer: B

Explanation:

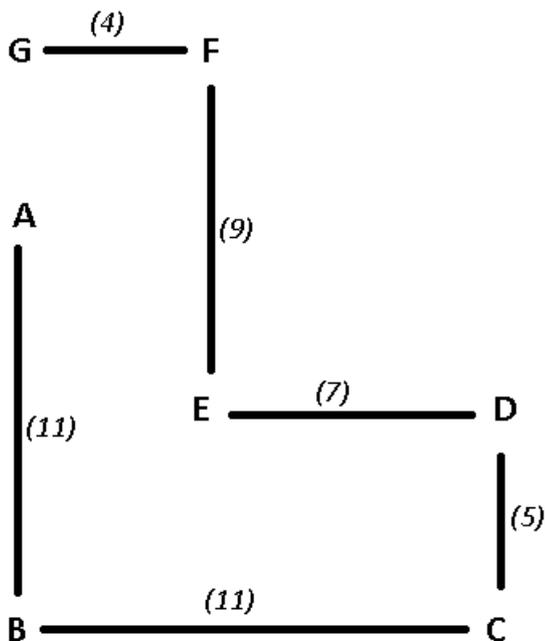
E is 7m to the west of D.

F is 9m to the north of point E. As G is 4m to the west of F.

=> G, A and B are collinear in that order and the distance between G and B is 3m.

Based on the above conditions, The points after plotted on a graph will be :

The numbers in the brackets are the distances between two points.



Point D is in south-east direction with respect to point F.

Thus, Ans - (B)

Question 79

Which of the following three points lie in a straight line ?

- A A, E and D
- B F, E and C
- C G, F and B
- D G, A and B
- E None of these.

Answer: D

Explanation:

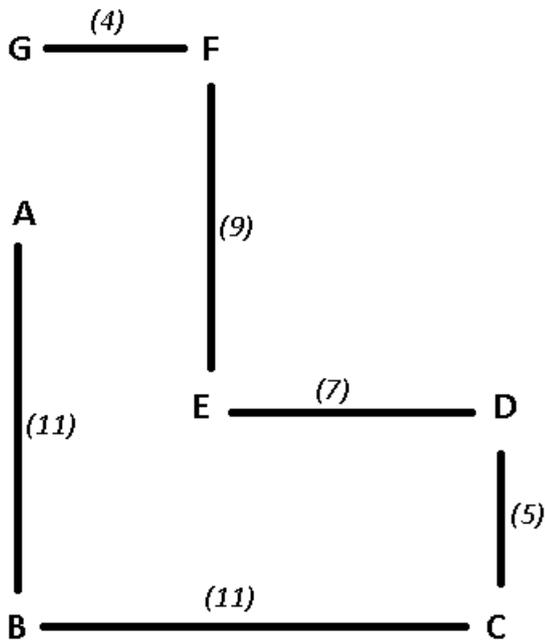
E is 7m to the west of D.

F is 9m to the north of point E. As G is 4m to the west of F.

=> G, A and B are collinear in that order and the distance between G and A is 3m.

Based on the above conditions, The points after plotted on a graph will be :

The numbers in the brackets are the distances between two points.



Clearly, G, A and B are collinear i.e. lie on a straight line.

Thus, Ans - (D)

Instructions

Read the following information carefully and answer the questions which follow-

If 'p * Q' means 'p is the mother of Q'

If 'p x Q' means 'p is the father of Q'

If 'p + Q' 'P is the sister of Q'

If 'p - Q' means 'p is the brother of Q'

If 'P ≥ Q' means 'p is the son of Q'

If 'p ≤ Q' means 'p is the daughter of Q'

Question 80

Which of the following means D is the aunt of C ?

A $D \geq B * A * C$

B $D + B - C * A$

- C $D-B-A \times C$
- D $D+B \times A \times C$
- E None of these

Answer: E

Explanation:

None of the options establish a relation of C being nephew of D or D being aunt of C.

Hence, none of the option is correct.

The correct option in this case is E.

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