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(1) 325, 259, 202, 160, 127, 105, 94

[A] 94

[B] 127

[C] 202

[D] 259

**Answer :** [C]

**Explanation:**

The correct pattern is - 66, - 55, - 44, - 33, - 22, - 11.

So, 202 is wrong and must be replaced by (259 - 55) i.e. 204.

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(2) H, I, K, N, ?

[A] O

[B] Q

[C] R

[D] S

**Answer :** [C]

**Explanation:**



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(3) AZ, GT, MN, ?, YB

[A] JH

[B] SH

[C] SK

[D] TS

**Answer :** [B]

**Explanation:**



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(4) C, Z, F, X, I, V, L, T, O, ?, ?

[A] O, P

[B] P, Q

[C] R, R

[D] S, R

**Answer :** [C]

**Explanation:**

The given sequence is a combination of two series:

I. C, F, I, L, O, ? and II. Z, X, V, T, ?



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(5) GH, JL, NQ, SW, YD, ?

[A] EJ

[B] FJ

[C] EL

[D] FL

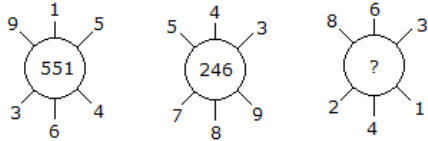
Answer : [D]

Explanation:



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(6) Which one will replace the question mark ?



[A] 262

[B] 622

[C] 631

[D] 824

Answer : [B]

Explanation:

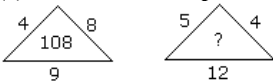
$$915 - 364 = 551$$

$$\text{and } 789 - 543 = 246$$

$$\text{Similarly, } 863 - 241 = 622.$$

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(7) Which one will replace the question mark ?



[A] 80

[B] 114

[C] 108

[D] None of these

Answer : [C]

Explanation:

$$(4 + 8) \times 9 = 108$$

$$(5 + 4) \times 12 = 108.$$

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(8) Two cars start from the opposite places of a main road, 150 km apart. First car runs for 25 km and takes a right turn and then runs 15 km. It then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point?

[A] 65 km

[B] 75 km

[C] 80 km

[D] 85 km

Answer : [A]

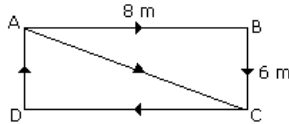
Explanation:

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(9) The length and breadth of a room are 8 m and 6 m respectively. A cat runs along all the four walls and finally along a diagonal order to catch a rat. How much total distance is covered by the cat?

- [A] 10
- [B] 14
- [C] 38
- [D] 48

Answer : [C]



$$\begin{aligned} \text{Required distance} &= 8 + 6 + 8 + 6 + \sqrt{8^2 + 6^2} \\ &= 28 + \sqrt{100} \\ &= 28 + 10 \\ &= 38 \text{ m} \end{aligned}$$

Explanation:

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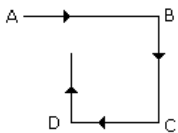
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(10) One morning sujata started to walk towards the Sun. After covering some distance she turned to right then again to the right and after covering some distance she again turns to the right. Now in which direction is she facing?

- [A] North
- [B] South
- [C] North-East
- [D] South-West

Answer : [A]

Explanation:



Hence finally Sujata will face towards North.

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(11) One morning after sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?

- [A] East
- [B] South
- [C] West
- [D] Data is inadequate

Answer : [B]

Explanation: Sun rises in the east in the morning. Since the shadow of Suresh falls to his right. So he is facing South.

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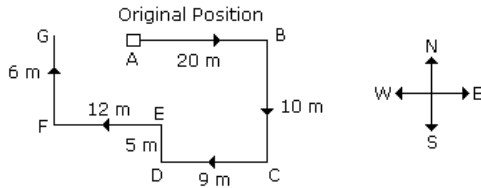
(12) Sundar runs 20 m towards East and turns to right and runs 10 m. Then he turns to the right and runs 9 m. Again he turns to right and runs 5 m. After this he turns to left and runs 12 m and finally he turns to right and 6 m. Now to which direction is Sundar facing?

- [A] East
- [B] West
- [C] North

[D] South

**Answer : [C]**

**Explanation:**



Therefore, it is clear that Sundar will face towards North.

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(13) Village Q is to the North of the village P. The village R is in the East of Village Q. The village S is to the left of the village P. In which direction is the village S with respect to village R?

[A] West

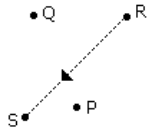
[B] South-West

[C] South

[D] North-West

**Answer : [B]**

**Explanation:**



S is to the South-West of R.

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(14) A student got twice as many sums wrong as he got right. If he attempted 48 sums in all, how many did he solve correctly ?

[A] 12

[B] 16

[C] 18

[D] 24

**Answer : [B]**

**Explanation:**

Suppose the boy got  $x$  sums right and  $2x$  sums wrong.

Then,  $x + 2x = 48 \Leftrightarrow 3x = 48 \Leftrightarrow x = 16$ .

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(15) David gets on the elevator at the 11th floor of a building and rides up at the rate of 57 floors per minute. At the same time, Albert gets on an elevator at the 51st floor of the same building and rides down at the rate of 63 floors per minute. If they continue travelling at these rates, then at which floor will their paths cross ?

[A] 19

[B] 28

[C] 30

[D] 37

**Answer : [C]**

**Explanation:**

Suppose their paths cross after  $x$  minutes.

$$\text{Then, } 11 + 57x = 51 - 63x \Leftrightarrow 120x = 40 \Leftrightarrow x = \frac{1}{3}.$$

$$\text{Number of floors covered by David in } \frac{1}{3} \text{ min.} = \left(\frac{1}{3} \times 57\right) = 19.$$

So, their paths cross at  $(11 + 19)$ th i.e. 30th floor.

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(16) A fires 5 shots to B's 3 but A kills only once in 3 shots while B kills once in 2 shots. When B has missed 27 times, A has killed

[A] 30 birds

[B] 60 birds

[C] 72 birds

[D] 90 birds

Answer : [A]

**Explanation:**

Let the total number of shots be  $x$ . Then,

$$\text{Shots fired by A} = \frac{5}{8}x; \quad \text{Shots fired by B} = \frac{3}{8}x.$$

$$\text{Killing shots by A} = \frac{1}{3} \text{ of } \frac{5}{8}x = \frac{5x}{24};$$

$$\text{Shots missed by B} = \frac{1}{2} \text{ of } \frac{3}{8}x = \frac{3x}{16}.$$

$$\therefore \frac{3x}{16} = 27 \quad \text{or} \quad x = \left(\frac{27 \times 16}{3}\right) = 144.$$

$$\text{Birds killed by A} = \frac{5x}{24} = \left(\frac{5}{24} \times 144\right) = 30.$$

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(17) A father tells his son, "I was of your present age when you were born". If the father is 36 now, how old was the boy five years back ?

[A] 13

[B] 15

[C] 17

[D] 20

Answer : [A]

**Explanation:**

Let the father's age be  $x$  and the son's age be  $y$ .

Then,  $x - y = y$  or  $x = 2y$ ,

Now,  $x = 36$ . So,  $2y = 36$  or  $y = 18$ .

Therefore Son's present age = 18 years.

So, son's age 5 years ago = 13 years.

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(18) If a 1 mm thick paper is folded so that the area is halved at every fold, then what would be the thickness of the pile after 50 folds ?

[A] 100 km

[B] 1000 km

[C] 1 million km

[D] 1 billion km

Answer : [D]

**Explanation:**

Since the area is halved on folding, so each time the paper is folded in the centre *i.e.* its thickness becomes two-fold each time. So, we have :

Thickness after 1 fold = 2 mm;

Thickness after 2 folds =  $(2 \times 2)$  mm =  $2^2$  mm;

Thickness after 3 folds =  $(2^2 \times 2)$  mm =  $2^3$  mm; and so on.

$\therefore$  Thickness after 50 folds =  $2^{50}$  mm =  $\left(\frac{2^{50}}{1000 \times 1000}\right)$  km.

Let  $x = \frac{2^{50}}{(1000)^2}$ . Then,

$$\log x = 50 \log 2 - 2 \log 1000 = 50 \times 0.3010 - 2 \times 3 = 9.050 \sim 9.$$

So,  $x = \text{antilog } 9 = 1000000000$ .

Hence, thickness after 50 folds =  $x$  km = 1 billion km.

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(19) Between two book-ends in your study are displayed your five favourite puzzle books. If you decide to arrange the five books in every possible combination and moved just one book every minute, how long would it take you ?

[A] 1 hour

[B] 2 hours

[C] 3 hours

[D] 4 hours

Answer : [B]

**Explanation:**

Clearly, number of ways of arranging 5 books =  $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$ .

So, total time taken = 120 minutes = 2 hours.

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(20) A placed three sheets with two carbons to get two extra copies of the original. Then he decided to get more carbon copies and folded the paper in such a way that the upper half of the sheets were on top of the lower half. Then he typed. How many carbon copies did he get?

[A] 1

[B] 2

[C] 3

[D] 4

Answer : [B]

**Explanation:**

Since the number of carbons is 2, only two copies can be obtained.

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