

Book For
Railway Recruitment Board



Arithmetic Reasoning



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Q. 1 **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 Option [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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Q. 2 **If a clock takes seven seconds to strike seven, how long will it take to strike ten ?**

- [A] 7 seconds
- [B] 9 seconds
- [C] 10 seconds
- [D] None of these

Answer Option [D]

Explanation:

Clearly, seven strikes of a clock have 6 intervals while 10 strikes have 9 intervals.

$$\therefore \text{Required time} = \left(\frac{7}{6} \times 9\right) \text{ seconds} = 10\frac{1}{2} \text{ seconds.}$$

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Q. 3 **A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether ?**

- [A] 100
- [B] 104
- [C] 108
- [D] None of these

Answer Option [B]

Explanation:

Since each pole at the corner of the plot is common to its two sides, so we have :
Total number of poles needed = $27 \times 4 - 4 = 108 - 4 = 104$.

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Q. 4 **A woman says, "If you reverse my own age, the figures represent my husband's age. He is, of course, senior to me and the difference between our ages is one-eleventh of their sum." The woman's age is**

- [A] 23 years
- [B] 34 years
- [C] 45 years
- [D] None of these

Answer Option [C]

Explanation:

Let x and y be the ten's and unit's digits respectively of the numeral denoting the woman's age.

Then, woman's age = $(10X + y)$ years; husband's age = $(10y + x)$ years.

Therefore $(10y + x) - (10X + y) = (1/11) (10y + x + 10x + y)$

$\Leftrightarrow (9y - 9x) = (1/11)(11y + 11x) = (x + y) \Leftrightarrow 10x = 8y \Leftrightarrow x = (4/5)y$

Clearly, y should be a single-digit multiple of 5, which is 5.

So, $x = 4$, $y = 5$.

Hence, woman's age = $10x + y = 45$ years.

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Q. 5 **I have a few sweets to be distributed. If I keep 2, 3 or 4 in a pack, I am left with one sweet. If I keep 5 in a pack, I am left with none. What is the minimum number of sweets I have to pack and distribute ?**

- [A] 25
- [B] 37
- [C] 54
- [D] 65

Answer Option [A]

Explanation:

Clearly, the required number would be such that it leaves a remainder of 1 when divided by 2, 3 or 4 and no remainder when divided by 5. Such a number is 25.

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Q. 6 **In a class, 20% of the members own only two cars each, 40% of the remaining own three cars each and the remaining members own only one car each. Which of the following statements is definitely true from the given statements ?**

- [A] Only 20% of the total members own three cars each.
- [B] 48% of the total members own only one car each.
- [C] 60% of the total members own at least two cars each.
- [D] 80% of the total members own at least one car.
- [E] None of these

Answer Option [B]

Explanation:

Let total number of members be 100,

Then, number of members owning only 2 cars = 20.

Number of members owning 3 cars = 40% of 80 = 32.

Number of members owning only 1 car = $100 - (20 + 32) = 48$.

Thus, 48% of the total members own one car each.

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Q. 7 **Ayush was born two years after his father's marriage. His mother is five years younger than his father but 20 years older than Ayush who is 10 years old. At what age did the father get married ?**

- [A] 23 years
- [B] 25 years
- [C] 33 years
- [D] 35 years

Answer Option [A]

Explanation:

Ayush's present age = 10 years.

His mother's present age = $(10 + 20)$ years = 30 years.

Ayush's father's present age = $(30 + 5)$ years = 35 years.

Ayush's father's age at the time of Ayush's birth = $(35 - 10)$ years = 25 years.

Therefore Ayush's father's age at the time of marriage = $(25 - 2)$ years = 23 years.

- Q. 8 A, B, C, D and E play a game of cards. A says to B, "If you give me 3 cards, you will have as many as I have at this moment while if D takes 5 cards from you, he will have as many as E has." A and C together have twice as many cards as E has. B and D together also have the same number of cards as A and C taken together. If together they have 150 cards, how many cards has C got ?
- [A] 28
[B] 29
[C] 31
[D] 35

Answer Option [A]

Explanation:

Clearly, we have :

$$A = B - 3 \dots(i)$$

$$D + 5 = E \dots(ii)$$

$$A + C = 2E \dots(iii)$$

$$B + D = A + C = 2E \dots(iv)$$

$$A + B + C + D + E = 150 \dots(v)$$

From (iii), (iv) and (v), we get: $5E = 150$ or $E = 30$.

Putting $E = 30$ in (ii), we get: $D = 25$.

Putting $E = 30$ and $D = 25$ in (iv), we get: $B = 35$.

Putting $B = 35$ in (i), we get: $A = 32$.

Putting $A = 32$ and $E = 30$ in (iii), we get: $C = 28$.

- Q. 9 Mr. Johnson was to earn £ 300 and a free holiday for seven weeks' work. He worked for only 4 weeks and earned £ 30 and a free holiday. What was the value of the holiday?
- [A] £ 300
[B] £ 330
[C] £ 360
[D] £ 420

Answer Option [B]

Explanation:

Let the value of the holiday be x .

Then, pay for seven weeks' work = £ 300 + x .

$$\text{So, } \frac{\text{£ } 300 + x}{7} \times 4 = \text{£ } 30 + x \Leftrightarrow \text{£ } 1200 + 4x = \text{£ } 210 + 7x$$

$$\Leftrightarrow 3x = \text{£ } 990 \Leftrightarrow x = \text{£ } 330.$$

- Q. 10 On Children's Day, sweets were to be equally distributed among 175 children in a school. Actually on the Children's Day, 35 children were absent and therefore each child got 4 sweets extra. Total how many sweets were available for distribution ?
- [A] 2400
[B] 2480
[C] 2680
[D] 2800

Answer Option [D]

Explanation:

Let total number of sweets be x . Then,

$$\frac{x}{140} - \frac{x}{175} = 4 \Leftrightarrow 5x - 4x = 4 \times 700 \Leftrightarrow x = 2800.$$

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Q. 11 The total of the ages of Amar, Akbar and Anthony is 80 years. What was the total of their ages three years ago ?

- [A] 71 years
- [B] 72 years
- [C] 74 years
- [D] 77 years

Answer Option [A]

Explanation:

Required sum = $(80 - 3 \times 3)$ years = $(80 - 9)$ years = 71 years.

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Q. 12 Mr. X, a mathematician, defines a number as 'connected with 6 if it is divisible by 6 or if the sum of its digits is 6, or if 6 is one of the digits of the number. Other numbers are all 'not connected with 6'. As per this definition, the number of integers from 1 to 60 (both inclusive) which are not connected with 6 is

- [A] 18
- [B] 22
- [C] 42
- [D] 43

Answer Option [D]

Explanation:

Numbers from 1 to 60, which are divisible by 6 are : 6, 12, 18, 24, 30, 36, 42, 48, 54, 60.

There are 10 such numbers.

Numbers from 1 to 60, the sum of whose digits is 6 are : 6, 15, 24, 33, 42, 51, 60.

There are 7 such numbers of which 4 are common to the above ones. So, there are 3 such uncommon numbers.

Numbers from 1 to 60, which have 6 as one of the digits are 6, 16, 26, 36, 46, 56, 60.

Clearly, there are 4 such uncommon numbers.

So, numbers 'not connected with 6' = $60 - (10 + 3 + 4) = 43$.

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Q. 13 If you write down all the numbers from 1 to 100, then how many times do you write 3 ?

- [A] 11
- [B] 18
- [C] 20
- [D] 21

Answer Option [C]

Explanation:

Clearly, from 1 to 100, there are ten numbers with 3 as the unit's digit - 3, 13, 23, 33, 43, 53, 63, 73, 83, 93; and ten numbers with 3 as the ten's digit - 30, 31, 32, 33, 34, 35, 36, 37, 38, 39.

So, required number = $10 + 10 = 20$.

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Q. 14 The taxi charges in a city comprise of a fixed charge, together with the charge of the distance covered. For a journey of 16 km, the charges paid are Rs. 156 and for a journey of 24 km, the charges paid are Rs. 204. What will a person have to pay for travelling a distance of 30 km?

[A] Rs. 236

[B] Rs. 240

[C] Rs. 248

[D] Rs. 252

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Answer Option [B]

Explanation:

Let the fixed charge be Rs. x and variable charge be Rs. y per km. Then,

$$x + 16y = 156 \dots(i) \text{ and}$$

$$x + 24y = 204 \dots(ii)$$

Solving (i) and (ii), we get: $x = 60$, $y = 6$.

Therefore Cost of travelling 30 km = $60 + 30y = \text{Rs. } (60 + 30 \times 6) = \text{Rs. } 240$.

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Q. 15 **When Rahul was born, his father was 32 years older than his brother and his mother was 25 years older than his sister. If Rahul's brother is 6 years older than him and his mother is 3 years younger than his father, how old was Rahul's sister when he was born ?**

[A] 7 years

[B] 10 years

[C] 14 years

[D] 19 years

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Answer Option [B]

Explanation:

When Rahul was born, his brother's age = 6 years; his father's age = $(6 + 32)$ years = 38 years, his mother's age = $(38 - 3)$ years = 35 years; his sister's age = $(35 - 25)$ years = 10 years.

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Q. 16 **In a city, 40% of the adults are illiterate while 85% of the children are literate. If the ratio of the adults to that of the children is 2 : 3, then what percent of the population is literate ?**

[A] 20%

[B] 25%

[C] 50%

[D] 75%

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Answer Option [D]

Explanation:

Let the number of adults and children be $2x$ and $3x$ respectively.

Then, literate population = $(100 - 40)\%$ of $2x$ + 85% of $3x$

$$= \left(\frac{60}{100} \times 2x \right) + \left(\frac{85}{100} \times 3x \right) = \frac{6x}{5} + \frac{51x}{20} = \frac{75x}{20}$$

$$\therefore \text{Required percentage} = \left(\frac{75x}{20} \times \frac{1}{5x} \times 100 \right) \% = 75\%$$

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Q. 17 **In a group of cows and hens, the number of legs are 14 more than twice the number of heads. The number of cows is**

[A] 5

[B] 7

[C] 10

[D] 12

Answer Option [B]

Explanation:

Let the number of cows be x and the number of hens be y .
Then, $4x + 2y = 2(x + y) + 14 \Leftrightarrow 4x + 2y = 2x + 2y + 14 \Leftrightarrow 2x = 14 \Leftrightarrow x = 7$.

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Q. 18 **In a garden, there are 10 rows and 12 columns of mango trees. The distance between the two trees is 2 metres and a distance of one metre is left from all sides of the boundary of the garden. The length of the garden is**

- [A] 20 m
- [B] 22 m
- [C] 24 m
- [D] 26 m

Answer Option [C]

Explanation:

Each row contains 12 plants.
There are 11 gaps between the two corner trees (11 x 2) metres and 1 metre on each side is left.
Therefore Length = (22 + 2) m = 24 m.

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Q. 19 **A man wears socks of two colours - Black and brown. He has altogether 20 black socks and 20 brown socks in a drawer. Supposing he has to take out the socks in the dark, how many must he take out to be sure that he has a matching pair ?**

- [A] 3
- [B] 20
- [C] 39
- [D] None of these

Answer Option [A]

Explanation:

Since there are socks of only two colours, so two out of any three socks must always be of the same colour.

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Q. 20 **In a class of 60 students, the number of boys and girls participating in the annual sports is in the ratio 3 : 2 respectively. The number of girls not participating in the sports is 5 more than the number of boys not participating in the sports. If the number of boys participating in the sports is 15, then how many girls are there in the class ?**

- [A] 20
- [B] 25
- [C] 30
- [D] Data inadequate
- [E] None of these

Answer Option [C]

Explanation:

Let the number of boys and girls participating in sports be $3x$ and $2x$ respectively.
Then, $3x = 15$ or $x = 5$.
So, number of girls participating in sports = $2x = 10$.
Number of students not participating in sports = $60 - (15 + 10) = 35$.
Let number of boys not participating in sports be y .
Then, number of girls not participating in sports = $(35 - y)$.
Therefore $(35 - y) = y + 5 \Leftrightarrow 2y \Leftrightarrow 30 \Leftrightarrow y = 15$.

So, number of girls not participating in sports = $(35 - 15) = 20$.
Hence, total number of girls in the class = $(10 + 20) = 30$.

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Q. 21 **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 Option [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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Q. 22 **Today is Varun's birthday. One year, from today he will be twice as old as he was 12 years ago. How old is Varun today ?**

- [A] 20 years
- [B] 22 years
- [C] 25 years
- [D] 27 years

Answer Option [C]

Explanation:

Let Varun's age today = x years.
Then, Varun's age after 1 year = $(x + 1)$ years.
Therefore $x + 1 = 2(x - 12) \Leftrightarrow x + 1 = 2x - 24 \Leftrightarrow x = 25$.

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Q. 23 **An institute organised a fete and $\frac{1}{5}$ of the girls and $\frac{1}{8}$ of the boys participated in the same. What fraction of the total number of students took part in the fete ?**

- [A] $\frac{2}{13}$
- [B] $\frac{13}{40}$
- [C] Data inadequate
- [D] None of these

Answer Option [C]

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Q. 24 **A number consists of two digits whose sum is 11. If 27 is added to the number, then the digits change their places. What is the number ?**

- [A] 47
- [B] 65
- [C] 83
- [D] 92

Answer Option [A]

Explanation:

Let the ten's digit be x . Then, unit's digit = $(11 - x)$.

So, number = $10x + (11 - x) = 9x + 11$.

Therefore $(9x + 11) + 27 = 10(11 - x) + x \Leftrightarrow 9x + 38 = 110 - 9x \Leftrightarrow 18x = 72 \Leftrightarrow x = 4$.

Thus, ten's digit = 4 and unit's digit = 7.

Hence, required number = 47.

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Q. 25 **There are deer and peacocks in a zoo. By counting heads they are 80. The number of their legs is 200. How many peacocks are there ?**

[A] 20

[B] 30

[C] 50

[D] 60

Answer Option [D]

Explanation:

Let x and y be the number of deer and peacocks in the zoo respectively. Then,

$x + y = 80$... (i) and

$4x + 2y = 200$ or $2x + y = 100$... (ii)

Solving (i) and (ii), we get $x = 20$, $y = 60$.

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Q. 26 **The total number of digits used in numbering the pages of a book having 366 pages is**

[A] 732

[B] 990

[C] 1098

[D] 1305

Answer Option [B]

Explanation:

Total number of digits

= (No. of digits in 1-digit page nos. + No. of digits in 2-digit page nos. + No. of digits in 3-digit page nos.)

= $(1 \times 9 + 2 \times 90 + 3 \times 267) = (9 + 180 + 801) = 990$.

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Q. 27 **After distributing the sweets equally among 25 children, 8 sweets remain. Had the number of children been 28, 22 sweets would have been left after equal distribution. What was the total number of sweets ?**

[A] 328

[B] 348

[C] 358

[D] Data inadequate

Answer Option [C]

Explanation:

Let the total number of sweets be $(25x + 8)$.

Then, $(25x + 8) - 22$ is divisible by 28

$\Leftrightarrow (25x - 14)$ is divisible by 28 $\Leftrightarrow 28x - (3x + 14)$ is divisible by 28

$\Leftrightarrow (3x + 14)$ is divisible by 28 $\Leftrightarrow x = 14$.

Therefore Total number of sweets = $(25 \times 14 + 8) = 358$.

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Q. 28 **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

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Answer Option [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 = (2×2) mm = 2^2 mm;

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

∴ 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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Q. 29 A number of friends decided to go on a picnic and planned to spend Rs. 96 on eatables. Four of them, however, did not turn up. As a consequence, the remaining ones had to contribute Rs. 4 each extra. The number of those who attended the picnic was

- [A] 8
- [B] 12
- [C] 16
- [D] 24

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Answer Option [A]

Explanation:

Let the number of persons be x . Then,

$$\frac{96}{x-4} - \frac{96}{x} = 4 \Leftrightarrow \frac{1}{x-4} - \frac{1}{x} = \frac{4}{96} \Leftrightarrow \frac{x-(x-4)}{x(x-4)} = \frac{1}{24}$$

$$\Leftrightarrow x^2 - 4x - 96 = 0 \Leftrightarrow (x-12)(x+8) = 0 \Leftrightarrow x = 12.$$

So, required number = $x - 4 = 8$.

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Q. 30 A total of 324 coins of 20 paise and 25 paise make a sum of Rs. 71. The number of 25-paise coins is

- [A] 120
- [B] 124
- [C] 144
- [D] 200

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Answer Option [B]

Explanation:

Let the number of 20-paise coins be x . Then, number of 25-paise coins = $(324 - x)$.

Therefore $0.20x + 0.25(324 - x) = 71 \Leftrightarrow 20x + 25(324 - x) = 7100$
 $\Leftrightarrow 5x = 1000 \Leftrightarrow x = 200$. Hence, number of 25-paise coins = $(324 - x) - 124$.

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Q. 31 **The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game he is out of the tournament. There are no ties. What is the minimum number of matches that must be played to determine the winner ?**

- [A] 15
- [B] 29
- [C] 61
- [D] None of these

Answer Option [B]

Explanation:

Clearly, every member except one (i.e. the winner) must lose one game to decide the winner. Thus, minimum number of matches to be played = $30 - 1 = 29$.

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Q. 32 **A printer numbers the pages of a book starting with 1 and uses 3189 digits in all. How many pages does the book have ?**

- [A] 1000
- [B] 1074
- [C] 1075
- [D] 1080

Answer Option [B]

Explanation:

No. of digits in 1-digit page nos. = $1 \times 9 = 9$.
No. of digits in 2-digit page nos. = $2 \times 90 = 180$.
No. of digits in 3-digit page nos. = $3 \times 900 = 2700$.
No. of digits in 4-digit page nos. = $3189 - (9 + 180 + 2700) = 3189 - 2889 = 300$.
Therefore No. of pages with 4-digit page nos. = $(300/4) = 75$.
Hence, total number of pages = $(999 + 75) = 1074$.

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Q. 33 **In a family, a couple has a son and a daughter. The age of the father is three times that of his daughter and the age of the son is half of that of his mother. The wife is 9 years younger to her husband and the brother is seven years older than his sister. What is the age of the mother ?**

- [A] 40 years
- [B] 45 years
- [C] 50 years
- [D] 60 years

Answer Option [D]

Explanation:

Let the daughter's age be x years.
Then, father's age = $(3x)$ years.
Mother's age = $(3x - 9)$ years; Son's age = $(x + 7)$ years.
So, $x + 7 = (3x - 9)/2 \Leftrightarrow 2x + 14 = 3x - 9 \Leftrightarrow x = 23$.
Therefore Mother's age = $(3x - 9) = (69 - 9)$ years = 60 years.

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Q. 34 **The number of boys in a class is three times the number of girls. Which one of the following numbers cannot represent**

the total number of children in the class ?

- [A] 48
- [B] 44
- [C] 42
- [D] 40

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Answer Option [C]

Explanation:

Let number of girls = x and number of boys = $3x$.

Then, $3x + x = 4x =$ total number of students.

Thus, to find exact value of x , the total number of students must be divisible by 4.

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Q. 35 A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?

- [A] 45
- [B] 60
- [C] 75
- [D] 90

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Answer Option [D]

Explanation:

Let number of notes of each denomination be x .

Then, $x + 5x + 10x = 480 \Leftrightarrow 16x = 480 \Leftrightarrow x = 30$.

Hence, total number of notes = $3x = 90$.

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Q. 36 First bunch of bananas has $(1/4)$ again as many bananas as a second bunch. If the second bunch has 3 bananas less than the first bunch, then the number of bananas in the first bunch is

- [A] 9
- [B] 10
- [C] 12
- [D] 15

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Answer Option [D]

Explanation:

Let the number of bananas in the second bunch be x .

Then, number of bananas in the first bunch = $x + \frac{1}{4}x = \frac{5}{4}x$.

So, $\frac{5}{4}x - x = 3 \Leftrightarrow 5x - 4x = 12 \Leftrightarrow x = 12$

\therefore Number of bananas in the first bunch = $\left(\frac{5}{4} \times 12\right) = 15$.

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Q. 37 Mac has £ 3 more than Ken, but then Ken wins on the horses and trebles his money, so that he now has £ 2 more than the original amount of money that the two boys had between them. How much money did Mac and Ken have between them before Ken's win ?

- [A] £ 9
- [B] £ 11
- [C] £ 13

[D] £ 15

Answer Option [C]

Explanation:

Let money with Ken = x . Then, money with Mac = $x + £ 3$.

Now, $3x = (x + x + £ 3) + £ 2 \Leftrightarrow x = £ 5$.

Therefore Total money with Mac and Ken = $2x + £ 3 = £ 13$.

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Q. 38 **A is 3 years older to B and 3 years younger to C, while B and D are twins. How many years older is C to D?**

[A] 2

[B] 3

[C] 6

[D] 12

Answer Option [C]

Explanation:

Since B and D are twins, so $B = D$.

Now, $A = B + 3$ and $A = C - 3$.

Thus, $B + 3 = C - 3 \Leftrightarrow D + 3 = C - 3 \Leftrightarrow C - D = 6$.

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Q. 39 **In a caravan, in addition to 50 hens, there are 45 goats and 8 camels with some keepers. If the total number of feet be 224 more than the number of heads in the caravan, the number of keepers is**

[A] 5

[B] 8

[C] 10

[D] 15

Answer Option [D]

Explanation:

Let number of keepers be x . Then,

Total number of feet = $2 \times 50 + 4 \times 45 + 4 \times 8 + 2x = 2x + 312$.

Total number of heads = $50 + 45 + 8 + x = 103 + x$.

Therefore $(2x + 312) = (103 + x) + 224$ or $x = 15$.

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Q. 40 **Three friends had dinner at a restaurant. When the bill was received, Amita paid $\frac{2}{3}$ as much as Veena paid and Veena paid $\frac{1}{2}$ as much as Tanya paid. What fraction of the bill did Veena pay ?**

[A] $\frac{1}{3}$

[B] $\frac{3}{11}$

[C] $\frac{12}{13}$

[D] $\frac{5}{8}$

Answer Option [B]

Explanation:

Let Tanya's share = Rs. x . Then, Veena's share = Rs. $\left(\frac{x}{2}\right)$.

Total bill = Rs. $\left(x + \frac{x}{2} + \frac{x}{3}\right) = \text{Rs. } \left(\frac{11x}{6}\right)$.

Amita's share = Rs. $\left(\frac{2}{3} \times \frac{x}{2}\right) = \text{Rs. } \left(\frac{x}{3}\right)$.

\therefore Required fraction = $\left(\frac{x}{2} \times \frac{6}{11x}\right) = \frac{3}{11}$.

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Q. 41 **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 Option [A]

Explanation:

Let the total number of shots be x . Then,

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

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

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

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

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

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Q. 42 **At the end of a business conference the ten people present all shake hands with each other once. How many handshakes will there be altogether ?**

- [A] 20
- [B] 45
- [C] 55
- [D] 90

Answer Option [B]

Explanation:

Clearly, total number of handshakes = $(9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1) = 45$.

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Q. 43 **Five bells begin to toll together and toll respectively at intervals of 6, 5, 7, 10 and 12 seconds. How many times will they toll together in one hour excluding the one at the start ?**

- [A] 7 times
- [B] 8 times

[C] 9 times

[D] 11 times

Answer Option [B]

Explanation:

L.C.M. of 6, 5, 7, 10 and 12 is 420.

So, the bells will toll together after every 420 seconds i.e. 7 minutes.

Now, $7 \times 8 = 56$ and $7 \times 9 = 63$.

Thus, in 1-hour (or 60 minutes), the bells will toll together 8 times, excluding the one at the start.

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Q. 44 **A motorist knows four different routes from Bristol to Birmingham. From Birmingham to Sheffield he knows three different routes and from Sheffield to Carlisle he knows two different routes. How many routes does he know from Bristol to Carlisle ?**

[A] 4

[B] 8

[C] 12

[D] 24

Answer Option [D]

Explanation:

Total number of routes from Bristol to Carlisle = $(4 \times 3 \times 2) = 24$.

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Q. 45 **A, B, C, D and E play a game of cards. A says to B, "If you give me three cards, you will have as many as E has and if I give you three cards, you will have as many as D has." A and B together have 10 cards more than what D and E together have. If B has two cards more than what C has and the total number of cards be 133, how many cards does B have ?**

[A] 22

[B] 23

[C] 25

[D] 35

Answer Option [C]

Explanation:

Clearly, we have :

$B - 3 = E$... (i)

$B + 3 = D$... (ii)

$A + B = D + E + 10$... (iii)

$B = C + 2$... (iv)

$A + B + C + D + E = 133$... (v)

From (i) and (ii), we have : $2B = D + E$... (vi)

From (iii) and (vi), we have : $A = B + 10$... (vii)

Using (iv), (vi) and (vii) in (v), we get:

$(B + 10) + B + (B - 2) + 2B = 133 \Leftrightarrow 5B = 125 \Leftrightarrow B = 25$.

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Q. 46 **Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A ?**

[A] Rs. 4, Rs. 23

[B] Rs. 13, Rs. 17

[C] Rs. 15, Rs. 14

[D] Rs. 17, Rs. 13

Answer Option [B]

Explanation:

Let Rs. x be the fare of city B from city A and Rs. y be the fare of city C from city A.
Then, $2x + 3y = 77$... (i) and
 $3x + 2y = 73$... (ii)
Multiplying (i) by 3 and (ii) by 2 and subtracting, we get: $5y = 85$ or $y = 17$.
Putting $y = 17$ in (i), we get: $x = 13$.

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Q. 47 **A monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing in the beginning of the next hour. If he begins his ascent at 8.00 a.m., at what time will he first touch a flag at 120 feet from the ground?**

- [A] 4 p.m.
- [B] 5 p.m.
- [C] 6 p.m.
- [D] None of these

Answer Option [C]

Explanation:

Net ascent of the monkey in 1 hour = $(30 - 20)$ feet = 10 feet.
So, the monkey ascends 90 feet in 9 hours i.e. till 5 p.m.
Clearly, in the next 1 hour i.e. till 6 p.m. the monkey ascends remaining 30 feet to touch the flag.

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Q. 48 **In three coloured boxes - Red, Green and Blue, 108 balls are placed. There are twice as many balls in the green and red boxes combined as there are in the blue box and twice as many in the blue box as there are in the red box. How many balls are there in the green box ?**

- [A] 18
- [B] 36
- [C] 45
- [D] None of these

Answer Option [D]

Explanation:

Let R, G and B represent the number of balls in red, green and blue boxes respectively.
Then, .
 $R + G + B = 108$... (i),
 $G + R = 2B$... (ii)
 $B = 2R$... (iii)
From (ii) and (iii), we have $G + R = 2 \times 2R = 4R$ or $G = 3R$.
Putting $G = 3R$ and $B = 2R$ in (i), we get:
 $R + 3R + 2R = 108 \Leftrightarrow 6R = 108 \Leftrightarrow R = 18$.
Therefore Number of balls in green box = $G = 3R = (3 \times 18) = 54$.

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Q. 49 **A certain number of horses and an equal number of men are going somewhere. Half of the owners are on their horses' back while the remaining ones are walking along leading their horses. If the number of legs walking on the ground is 70, how many horses are there ?**

- [A] 10
- [B] 12
- [C] 14
- [D] 16

Answer Option [C]

Explanation:

Let number of horses = number of men = x .
Then, number of legs = $4x + 2 \times (x/2) = 5x$.
So, $5X = 70$ or $x = 14$.

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Q. 50 **At a dinner party every two guests used a bowl of rice between them, every three guests used a bowl of dal between them and every four used a bowl of meat between them. There were altogether 65 dishes. How many guests were present at the party ?**

- [A] 60
- [B] 65
- [C] 90
- [D] None of these

Answer Option [A]

Explanation:

Let the number of guests be x . Then,

number of bowls of rice = $\frac{x}{2}$; number of bowls of dal = $\frac{x}{3}$;

number of bowls of meat = $\frac{x}{4}$.

$$\therefore \frac{x}{2} + \frac{x}{3} + \frac{x}{4} = 65 \Leftrightarrow \frac{6x + 4x + 3x}{12} = 65 \Leftrightarrow 13x = 65 \times 12$$

$$\Leftrightarrow x = \left(\frac{65 \times 12}{13} \right) = 60.$$

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Q. 51 **If 100 cats kill 100 mice in 100 days, then 4 cats would kill 4 mice in how many days ?**

- [A] 1 day
- [B] 4 days
- [C] 40 days
- [D] 100 days

Answer Option [D]

Explanation:



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Q. 52 **In a family, the father took 1/4 of the cake and he had 3 times as much as each of the other members had. The total number of family members is**

- [A] 3
- [B] 7
- [C] 10
- [D] 12

Answer Option [C]

Explanation:

Let there be $(x + 1)$ members. Then,

Father's share = $\frac{1}{4}$, share of each other member = $\frac{3}{4x}$.

$$\therefore 3\left(\frac{3}{4x}\right) = \frac{1}{4} \Leftrightarrow 4x = 36 \Leftrightarrow x = 9.$$

Hence, total number of family members = 10.

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Q. 53 If every 2 out of 3 readymade shirts need alterations in the sleeves, and every 4 out of 5 need it in the body, how many alterations will be required for 60 shirts ?

- [A] 88
- [B] 123
- [C] 133
- [D] 143

Answer Option [C]

Explanation:



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Q. 54 A is three times as old as B. C was twice-as old as A four years ago. In four years' time, A will be 31. What are the present ages of B and C ?

- [A] 9, 46
- [B] 9, 50
- [C] 10, 46
- [D] 10, 50

Answer Option [B]

Explanation:

We have : $A = 3B$... (i) and

$C - 4 = 2(A - 4)$... (ii)

Also, $A + 4 = 31$ or $A = 31 - 4 = 27$.

Putting $A = 27$ in (i), we get: $B = 9$.

Putting $A = 27$ in (ii), we get $C = 50$.

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Q. 55 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 Option [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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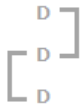
Q. 56 **What is the smallest number of ducks that could swim in this formation - two ducks in front of a duck, two ducks behind a duck and a duck between two ducks ?**

- [A] 3
- [B] 5
- [C] 7
- [D] 9

Answer Option [A]

Explanation:

Clearly, the smallest such number is 3.



Three ducks can be arranged as shown above to satisfy all the three given conditions.

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Q. 57 **A shepherd had 17 sheep. All but nine died. How many was he left with ?**

- [A] Nil
- [B] 8
- [C] 9
- [D] 17

Answer Option [C]

Explanation:

'All but nine died' means 'All except nine died' i.e. 9 sheep remained alive.

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Q. 58 **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 Option [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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Q. 59 An enterprising businessman earns an income of Re. 1 on the first day of his business. On every subsequent day, he earns an income which is just double of that made on the previous day. On the 10th day of business, his income is

- [A] Rs. 2^9
- [B] Rs. 2^{10}
- [C] Rs. 10
- [D] Rs. 10^2

Answer Option [A]

Explanation:

Income on the first day = Re. 1.

Income on the 2nd day = Rs. $(1 \times 2) = \text{Rs. } 2^1$.

Income on the 3rd day = Rs. $(2^1 \times 2) = \text{Rs. } 2^2$ and so on. Thus, Income on the n th day = Rs. 2^{n-1} .

Therefore Income on the 10th day = Rs. 2^9 .

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Q. 60 Find the number which when added to itself 13 times, gives 112.

- [A] 7
- [B] 8
- [C] 9
- [D] 11

Answer Option [B]

Explanation:

Let the number be x . Then, $x + 13x = 112 \Leftrightarrow 14x = 112 \Leftrightarrow x = 8$.

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Q. 61 A bird shooter was asked how many birds he had in the bag. He replied that there were all sparrows but six, all pigeons but six, and all ducks but six. How many birds he had in the bag in all?

- [A] 9
- [B] 18
- [C] 27
- [D] 36

Answer Option [A]

Explanation:

There were all sparrows but six' means that six birds were not sparrows but only pigeons and ducks.

Similarly, number of sparrows + number of ducks = 6 and number of sparrows + number of pigeons = 6.

This is possible when there are 3 sparrows, 3 pigeons and 3 ducks i.e. 9 birds in all.

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Q. 62 A group of 1200 persons consisting of captains and soldiers is travelling in a train. For every 15 soldiers there is one captain. The number of captains in the group is

- [A] 85
- [B] 80
- [C] 75
- [D] 70

Answer Option [C]

Explanation:

Clearly, out of every 16 persons, there is one captain. So, number of captains $(1200/16) = 75$.

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Q. 63 **A girl counted in the following way on the fingers of her left hand : She started by calling the thumb 1, the index finger 2, middle finger 3, ring finger 4, little finger 5 and then reversed direction calling the ring finger 6, middle finger 7 and so on. She counted upto 1994. She ended counting on which finger ?**

- [A] Thumb
- [B] Index finger
- [C] Middle finger
- [D] Ring finger

Answer Option [B]

Explanation:

Clearly, while counting, the numbers associated to the thumb will be : 1, 9, 17, 25,.....

i.e. numbers of the form $(8n + 1)$.

Since $1994 = 249 \times 8 + 2$, so 1993 shall correspond to the thumb and 1994 to the index finger.

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Q. 64 **A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on these fruits. The number of pineapples purchased is**

- [A] 2
- [B] 3
- [C] 4
- [D] Data inadequate

Answer Option [C]

Explanation:

Let the number of pineapples and watermelons be x and y respectively.

$$\text{Then, } 7x + 5y = 38 \text{ or } 5y = (38 - 7x) \text{ or } y = \frac{38 - 7x}{5}.$$

Clearly, y is a whole number, only when $(38 - 7x)$ is divisible by 5.

This happens when $x = 4$.

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Q. 65 **In a class, $\frac{3}{5}$ of the students are girls and rest are boys. If $\frac{2}{9}$ of the girls and $\frac{1}{4}$ of the boys are absent, what part of the total number of students is present ?**

- [A] $\frac{17}{25}$
- [B] $\frac{18}{49}$
- [C] $\frac{23}{30}$
- [D] $\frac{23}{36}$

Answer Option [C]

Explanation:

$$\text{Girls} = \frac{3}{5}, \text{ Boys} = \left(1 - \frac{3}{5}\right) = \frac{2}{5}.$$

$$\text{Fraction of students absent} = \frac{2}{9} \text{ of } \frac{3}{5} + \frac{1}{4} \text{ of } \frac{2}{5} = \frac{6}{45} + \frac{1}{10} = \frac{21}{90} = \frac{7}{30}.$$

$$\therefore \text{Fraction of students present} = \left(1 - \frac{7}{30}\right) = \frac{23}{30}.$$

- Q. 66 **A player holds 13 cards of four suits, of which seven are black and six are red. There are twice as many diamonds as spades and twice as many hearts as diamonds. How many clubs does he hold ?**
- [A] 4
 - [B] 5
 - [C] 6
 - [D] 7

Answer Option [C]

Explanation:

Clearly, the black cards are either clubs or spades while the red cards are either diamonds or hearts.

Let the number of spades be x . Then, number of clubs = $(7 - x)$.

Number of diamonds = $2 \times$ number of spades = $2x$;

Number of hearts = $2 \times$ number of diamonds = $4x$.

Total number of cards = $x + 2x + 4x + 7 - x = 6x + 7$.

Therefore $6x + 7 = 13 \Leftrightarrow 6x = 6 \Leftrightarrow x = 1$.

Hence, number of clubs = $(7 - x) = 6$.

- Q. 67 **Nitin's age was equal to square of some number last year and the following year it would be cube of a number. If again Nitin's age has to be equal to the cube of some number, then for how long he will have to wait?**
- [A] 10 years
 - [B] 38 years
 - [C] 39 years
 - [D] 64 years

Answer Option [B]

Explanation:

Clearly, we have to first find two numbers whose difference is 2 and of which the smaller one is a perfect square and the bigger one a perfect cube.

Such numbers are 25 and 27.

Thus, Nitin is now 26 years old. Since the next perfect cube after 27 is 64, so required time period = $(64 - 26)$ years = 38 years.

- Q. 68 **Aruna cut a cake into two halves and cuts one half into smaller pieces of equal size. Each of the small pieces is twenty grams in weight. If she has seven pieces of the cake in all with her, how heavy was the original cake ?**
- [A] 120 grams
 - [B] 140 grams
 - [C] 240 grams
 - [D] 280 grams
 - [E] None of these

Answer Option [C]

Explanation:

The seven pieces consist of 6 smaller equal pieces and one half cake piece.

Weight of each small piece = 20 g.

So, total weight of the cake = $[2 \times (20 \times 6)]g = 240$ g.

- Q. 69 **A bus starts from city X. The number of women in the bus is half of the number of men. In city Y, 10 men leave the bus and five women enter. Now, number of men and women is equal. In the beginning, how many passengers entered the bus ?**

[A] 15

[B] 30

[C] 36

[D] 45

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Answer Option [D]

Explanation:

Originally, let number of women = x . Then, number of men = $2x$.

So, in city Y, we have : $(2x - 10) = (x + 5)$ or $x - 15$.

Therefore Total number of passengers in the beginning = $(x + 2x) = 3x = 45$.

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Q. 70 **A tailor had a number of shirt pieces to cut from a roll of fabric. He cut each roll of equal length into 10 pieces. He cut at the rate of 45 cuts a minute. How many rolls would be cut in 24 minutes ?**

[A] 32 rolls

[B] 54 rolls

[C] 108 rolls

[D] 120 rolls

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Answer Option [D]

Explanation:

Number of cuts made to cut a roll into 10 pieces = 9.

Therefore Required number of rolls = $(45 \times 24)/9 = 120$.

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Q. 71 **In a cricket match, five batsmen A, B, C, D and E scored an average of 36 runs. D Scored 5 more than E; E scored 8 fewer than A; B scored as many as D and E combined; and B and C scored 107 between them. How many runs did E score ?**

[A] 62

[B] 45

[C] 28

[D] 20

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Answer Option [D]

Explanation:

Total runs scored = $(36 \times 5) = 180$.

Let the runs scored by E be x .

Then, runs scored by D = $x + 5$; runs scored by A = $x + 8$;

runs scored by B = $x + x + 5 = 2x + 5$;

runs scored by C = $(107 - B) = 107 - (2x + 5) = 102 - 2x$.

So, total runs = $(x + 8) + (2x + 5) + (102 - 2x) + (x + 5) + x = 3x + 120$.

Therefore $3x + 120 = 180 \Leftrightarrow 3x = 60 \Leftrightarrow x = 20$.

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Q. 72 **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

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Answer Option [B]

Explanation:

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

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Q. 73 **What is the product of all the numbers in the dial of a telephone ?**

- [A] 1,58,480
- [B] 1,59,450
- [C] 1,59,480
- [D] None of these

Answer Option [D]

Explanation:

Since one of the numbers on the dial of a telephone is zero, so the product of all the numbers on it is 0.

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Q. 74 **In a class, there are 18 boys who are over 160 cm tall. If these constitute three-fourths of the boys and the total number of boys is two-thirds of the total number of students in the class, what is the number of girls in the class ?**

- [A] 6
- [B] 12
- [C] 18
- [D] 24

Answer Option [B]

Explanation:

Let the number of boys be x . Then, $(\frac{3}{4})x = 18$ or $x = 18 \times (\frac{4}{3}) = 24$.
If total number of students is y , then $(\frac{2}{3})y = 24$ or $y = 24 \times (\frac{3}{2}) = 36$.
Therefore Number of girls in the class = $(36 - 24) = 12$.

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Q. 75 **Ravi's brother is 3 years senior to him. His father was 28 years of age when his sister was born while his mother was 26 years of age when he was born. If his sister was 4 years of age when his brother was born, what were the ages of Ravi's father and mother respectively when his brother was born ?**

- [A] 32 years, 23 years
- [B] 32 years, 29 years
- [C] 35 years, 29 years
- [D] 35 years, 33 years

Answer Option [A]

Explanation:

When Ravi's brother was born, let Ravi's father's age = x years and mother's age = y years.
Then, sister's age = $(x - 28)$ years. So, $x - 28 = 4$ or $x = 32$.
Ravi's age = $(y - 26)$ years. Age of Ravi's brother = $(y - 26 + 3)$ years = $(y - 23)$ years.
Now, when Ravi's brother was born, his age = 0 i.e. $y - 23 = 0$ or $y = 23$.

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Q. 76 **12 year old Manick is three times as old as his brother Rahul. How old will Manick be when he is twice as old as Rahul ?**

- [A] 14 years
- [B] 16 years
- [C] 18 years

[D] 20 years

Answer Option [B]

Explanation:

Manick's present age = 12 years, Rahul's present age = 4 years.
Let Manick be twice as old as Rahul after x years from now.
Then, $12 + x = 2(4 + x) \Leftrightarrow 12 + x = 8 + 2x \Leftrightarrow x = 4$.
Hence, Manick's required age = $12 + x = 16$ years.

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Q. 77 **In a family, each daughter has the same number of brothers as she has sisters and each son has twice as many sisters as he has brothers. How many sons are there in the family ?**

- [A] 2
- [B] 3
- [C] 4
- [D] 5

Answer Option [B]

Explanation:

Let d and s represent the number of daughters and sons respectively.
Then, we have :
 $d - 1 = s$ and $2(s - 1) = d$.
Solving these two equations, we get: $d = 4, s = 3$.

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Q. 78 **A waiter's salary consists of his salary and tips. During one week his tips were $\frac{5}{4}$ of his salary. What fraction of his income came from tips ?**

- [A] $\frac{4}{9}$
- [B] $\frac{5}{4}$
- [C] $\frac{5}{8}$
- [D] $\frac{5}{9}$

Answer Option [D]

Explanation:



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Q. 79 **A father is now three times as old as his son. Five years back, he was four times as old as his son. The age of the son (in years) is**

- [A] 12
- [B] 15
- [C] 18
- [D] 20

Answer Option [B]

Explanation:

Let son's age be x years. Then, father's age = $(3x)$ years.
Five years ago, father's age = $(3x - 5)$ years and son's age = $(x - 5)$ years.
So, $3x - 5 = 4(x - 5) \Leftrightarrow 3x - 5 = 4x - 20 \Leftrightarrow x = 15$.

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