



RRB NTPC Ratio and Proportion Previous Questions

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Instructions

For the following questions answer them individually

Question 1

The ratio of the present age of a man and his wife is 4:3 and 4 years hence the ratio of their ages will be 9:7. If the ratio of their ages at the time of their marriage was 13:9, how many years ago were they married?

- A 4
- B 8
- C 6
- D 9

Answer: C

Explanation:

Let the ages today be $4x$ and $3x$. Ages four years from now are $4x + 4$ and $3x + 4$

But $4x+4:3x+4 = 9:7$

So, $x = 8$

So, their current ages = 32 and 24

Let them be married for x years

Age at marriage = $32 - x$ and $24 - x$

But $32 - x : 24 - x = 13 : 9$

So $x = 6$ years.

Question 2

The volumes of three kinds of materials are in the ratio 3:4:7 and the weights of equal volumes of the three materials are in the ratio 5:2:6. If they are mixed to form a material of 65 kg then the weight of the 2nd material in the mixture is

- A 8 kg
- B 23 kg
- C 15 kg
- D 42 kg

Answer: A

Explanation:

Let the volumes of the 3 be: $3v$, $4v$ and $7v$

Densities of the three are $5d$, $2d$ and $6d$

So, the weights are $15dv + 8dv + 42dv = 65dv$

But that is 65 kilograms.

The second one's weight is $8dv = 8$ kgs

Question 3

6 : 1 is the ratio of the age of Amar and that of Ajay. After 7 years, this ratio becomes 7 : 2. What is the present age of Ajay?

- A 9 years
- B 7 years

C 5 years

D 11 years

Answer: B

Explanation:

Lets Amar and Ajay's ages be $6x$ and x . After 7 years, their ages are $6x + 7$ and $x + 7$.

But that $6x+7: x+7 = 7 : 2$

So, $x = 7$

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Question 4

If the ratio of boys to girls in a class is 5:3, then which of the following CANNOT be the number of children in that class ?

A 40

B 96

C 150

D 24

Answer: C

Explanation:

To make a meaningful number of boys and girls (whole numbers), the total number of children should be divisible by 8.

Question 5

A and B got Rs. 4,000 each as their share and C. Rs. 2,000. The ratio in which C, B and A distributed the amount is ?

A 2 : 2 : 1

B 2 : 1 : 2

C 1 : 2 : 2

D 1 : 4 : 4

Answer: C

Explanation:

$C : B : A = 2000 : 4000 : 4000 = 1 : 2 : 2$

Question 6

Find the fourth proportional to 3.6, 6.9 and 11.4.

A 20.3

B 18.9

C 19.6

D 21.9

Answer: D

Explanation:

product of means = product of extremes

$$6.9 \times 11.4 = 3.6 \times ?$$

$$? = 21.85 = 21.9$$

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Question 7

If 22, x, 88 are in a continued proportion, find the value of x.

- A 22
- B 33
- C 44
- D 36

Answer: C

Question 8

Its. 3,105 is due to be divided among K, L and M in the proportion of $2/3 : 3/4 : 1/2$ respectively. How much will L get?

- A Rs. 1,080
- B Rs. 810
- C Rs. 1,215
- D Rs. 970

Answer: C

Explanation:

$$\begin{array}{ccc} 2 & 3 & 1 \\ \text{Given, Ratio} = & 3 & : 4 : 2 \end{array}$$

$$\text{LCM} = 12$$

$$= 3 \times 12 : 4 \times 12 : 2 \times 12$$

$$= 8 : 9 : 6$$

$$\text{Ratio of K, L and M} = 8 : 9 : 6$$

$$\text{Share of L} = \frac{9}{23} \times 3105 = 1215.$$

Question 9

What is the 4th proportional of 3, 8, 12, ?

- A 36
- B 26
- C 32
- D 16

Answer: C

Explanation:

Let the fourth proportion will be x

Then, $3 : 8 :: 12 : x$

$$3 \times x = 12 \times 8$$

$$x = 32$$

So, fourth proportion will be 32.

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Question 10

The mean proportional between 0.16 and 0.64 is:

A 0.32

B 0.40

C 0.27

D 0.48

Answer: A

Explanation:

Mean proportional of two numbers is obtained by multiplying the two numbers and finding the square root of the number.

For the given numbers, mean proportional is given by,

$$= \sqrt{0.16 \times 0.64}$$

$$= \sqrt{0.1024} = 0.32$$

Hence, option A is the correct answer.

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