

# CLAT 2019

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9. Four children entered into a partnership. A puts Rs. 15 for 4 months, B puts Rs. 12 for 2 months, C puts Rs. 18 for 6 months and D puts Rs. 16 for 5 months. If profit at the end of year is Rs. 1020, what is A's share of profit?

A. Rs. 336

B. Rs. 248

C. Rs. 460

D. Rs. 225

10. The ratio between the present ages of A and B is 9:10. After 8 years the ratio of their ages will become 11:12. Find the present age of A.

A. 44 years

B. 40 years

C. 48 years

D. 36 years

**Correct Answers:**

1	2	3	4	5	6	7	8	9	10
B	A	C	A	B	D	C	A	D	D

**Explanations:**

1.

$$C.I. = P \left[ \left( 1 + \frac{x}{100} \right)^n - 1 \right]$$

$$246 = P \left[ \left( 1 + \frac{5}{100} \right)^2 - 1 \right]$$

$$246 = P \left[ \left( \frac{105}{100} \right)^2 - 1 \right]$$

$$246 = P \left[ \left( \frac{21}{20} \right)^2 - 1 \right]$$

$$P = 2400$$

So, SI on Rs. 2400 for 4 years at 8% S.I.

$$\Rightarrow S.I. = \frac{2400 \times 4 \times 8}{100}$$

$$= 24 \times 32 = 768$$

Hence, option B is correct.

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2. Given, M : W : C = 2 : 3 : 5,

But no. of Men = 100

It implies the number of women =  $50 \times 3 = 150$  & the number of children =  $5 \times 50 = 250$

Ratio of wages = 2 : 2 : 8

Total wages received by all =  $(100 \times 2) + (150 \times 2) + (250 \times 8) = 2500$

Now, if total wages are Rs. 2500, a man gets Rs. 4, if total wages are 1000,

$$\text{Daily wages of a man} = \frac{4}{2500} \times 1000 = \frac{8}{5}$$

Therefore, monthly wages of men in April which has 30 days

$$= \frac{8}{5} \times 30 = \text{Rs. } 48$$

Hence, option (A) is correct.

3.  $P + Q = 3(Q + R)$  .....(i)

$$P + Q + R = 30 + P$$

$$\text{so, } Q + R = 30 \text{ .....(ii)}$$

Putting (ii) in eq. (i)

$$P + Q = 3(30)$$

$$P + Q = 90 \text{ .....(iii)}$$

$$Q + R = 30$$

$$\text{as, } Q = 5R$$

$$\text{so, } 5R + R = 30$$

$$6R = 30$$

$$R = 5 \text{ .....(A)}$$

putting in eq. (ii)

$$Q + 5 = 30$$

$$Q = 25 \text{ .....(B)}$$

$$P + Q = 90$$

$$P + 25 = 90$$

$$P = 90 - 25 = 65$$

Hence, option C is correct.

4. We know that  
Time =  $\frac{\text{Distance}}{\text{Speed}}$

Let the distance be x km.

Difference in time = Difference in time

$$\frac{x}{4} - \frac{x}{5} = \frac{18}{60}$$

$$\frac{5x - 4x}{20} = \frac{3}{10}$$

$$\Rightarrow x = \frac{3}{10} \times 20 \Rightarrow 6 \text{ km}$$

Hence, option A is correct.

5. Average age of 6 boys = 12 years  
so, total age of 6 boys =  $12 \times 6 = 72$  years  
Average age of 4 boys = 18 years  
so, total age of 4 boys =  $18 \times 4 = 72$  years  
Total age of 10 boys =  $72 + 72 = 144$   
So, average age of 10 boys =  $\frac{144}{10} = 14.4$  years  
Hence, option B is correct.

6. Let the C.P. of 1 bottle = Re.1.  
so, the C.P. of 15 bottles = Rs.15  
& C.P. of 20 bottles = Rs. 20
- But, we know,  
C.P. of 15 bottles = S.P. of 20 bottles = Rs.15  
So, S.P. of 20 bottles = 15 Rs.  
C.P. of 20 bottles = 20 Rs.  
Hence, the seller faces loss,

$$\text{Now loss \%} = \frac{20 - 15}{20} \times 100$$

$$= \frac{5}{20} \times 100$$
$$= 25\%$$

Hence, option D is correct.

7. Let initial quantities of P and Q be  $4x$  &  $x$ .

$$\frac{P}{Q} = \frac{4x}{x}$$

In 10 litres of mixture, quantity of liquid P =  $\frac{4}{5} \times 10 = 8$ , therefore quantity of liquid Q = 2

When 10 litres of mixture taken out & 10 litres liquid Q is added, we get

$$\frac{P}{Q} = \frac{4x - 8}{x - 2 + 10} = \frac{2}{3}$$

$$\Rightarrow 12x - 24 = 2x + 16$$

$$\Rightarrow 10x = 24 + 16$$

$$x = \frac{40}{10} = 4 \text{ litres}$$

So, the initial quantity of liquid Q was =  $1x = 4$  litres

Hence, option C is correct.

8. Length of the pole is negligible when a train crosses it. While crossing the pole, the distance thus covered is the length of the train itself.

We know that,

$$\text{Time} = \frac{\text{distance}}{\text{speed}}$$

$$\text{Given speed} = 36 \times \frac{5}{18} = 10 \text{ m/s}$$

$$\text{Time taken} = \frac{420}{10} = 42 \text{ sec}$$

$\therefore$  It takes 42 seconds for the train to cross the telephone pole

Hence, option (A) is correct.

9. Ratio of share of profit for A, B, C and D is given by

$$\begin{aligned} A : B : C : D &= (15 \times 4) : (12 \times 2) : (18 \times 6) : (16 \times 5) \\ &= 60 : 24 : 108 : 80 = 15 : 6 : 27 : 20 \end{aligned}$$

$$\Rightarrow \text{A's share of profit} = \frac{15}{68} \times 1020$$

$$= \text{Rs. } 225$$

Hence, option D is correct.

**10.** A's age =  $9x$ , B's age =  $10x$

After 8 years,

$$9x + 8 : 10x + 8 = 11 : 12$$

$$12(9x + 8) : 11(10x + 8)$$

$$108x + 96 = 110x + 88$$

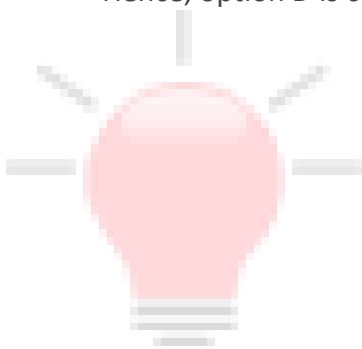
$$110x - 108x = 96 - 88$$

$$2x = 8$$

$$x = 4$$

$$\text{A's present age} = 4 \times 9 = 36$$

Hence, option D is correct.



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