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## Mixed Arithmetic Questions for LIC Asst. Pre.

### Word Problems Quiz 1

Direction: Read the following questions carefully and choose the right answer.

1. 200 men and 350 women can do a work in 40 days. 70 men and 100 women can do the same work in 'D' days. 50 men and 110 women can do the same work in 150 days. Find the value of 'D'.

- A. 80                      B. 60                      C. 50                      D. 120                      E. 90

2. Anil and Mukesh entered into a business and invested money in the ratio 2 : 3. Find the value of Anil's share, if the ratio of time period of their investments is 3 : 2 respectively and the total profit is Rs. 10000.

- A. Rs. 3950              B. Rs. 5550              C. Rs. 5000              D. Rs. 3000              E. None of these

3. P.T. Usha and Dutee Chand take part in a 100 metre race. P.T. Usha runs at a speed of 5 m/s. P.T. Usha gives Dutee Chand a start of 4 metre and still beats him by 4 seconds. Find the speed of Dutee Chand.

- A. 4 m/s                  B. 5 m/s                  C. 6 m/s                  D. 5.5 m/s                  E. 4.5 m/s

4. Find the cost price of the article having marked price Rs.400, which when sold at 20% discount still gives a profit 20/3%?

- A. Rs. 300                  B. Rs. 200                  C. Rs. 320                  D. Rs. 340                  E. Rs. 240

5. The cost per kilogram of pomegranate is Rs. 15 and that of pineapple is Rs. 10. Raghu purchased 60 kilograms of pomegranate and pineapple together for Rs. 700. The quantity of pomegranate purchased by Raghu is\_\_\_\_\_.

- A. 25 kg                  B. 20 kg                  C. 22 kg                  D. 28 kg                  E. 30 kg

6. After 4 years, the sum of ages of Ashish, Bhuvan and Chanchlani will be 98 years. What will be the age of Chanchlani after 4 years, if the present age of Ashish and Bhuvan is 32 years and 23 years respectively.

- A. 31 years                  B. 32 years                  C. 35 years                  D. 37 years                  E. 33 years

7. Find the interest earned after three years, if a person invests Rs. 293 at simple interest at the rate of 21% per annum.

- A. Rs.148.60      B. Rs.184.59      C. Rs.242.37      D. Rs.221.93      E. None of these

8. A horse covers a certain distance at 20 km/h and another distance that is 3 times of the earlier distance at 80 km/h. Find the average speed of the horse.

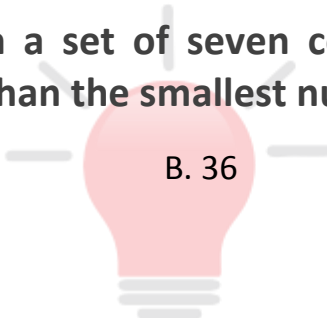
- A.  $45\frac{5}{7}$  km/h      B.  $35\frac{5}{7}$  km/h      C.  $45\frac{7}{5}$  km/h      D.  $42\frac{5}{7}$  km/h      E. None of these

9. 3 inlet taps T1, T2 and T3 can fill a tank in six hours. After working together for two hours, T3 is closed and T1 and T2 fill the remaining part of the tank in 8 hours. Find the time taken to fill the whole tank by T1 and T2.

- A. 10 hours      B. 14 hours      C. 8 hours      D. 12 hours      E. None of these


10. In a set of seven consecutive even numbers, the largest number is 40% more than the smallest number. Find the average of the set of numbers.

- A. 24      B. 36      C. 18      D. 48      E. None of these



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**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
D	C	A	A	B	C	B	A	D	B

## Explanations:

1. Applying,  $M_1D_1 = M_2D_2$

$$(200M + 350W) \times 40 = (50M + 110W) \times 150$$

$$\Rightarrow 800M + 1400W = 750M + 1650W$$

$$\Rightarrow 50M = 250W$$

$$\Rightarrow M = 5W$$

Now,

$$(200M + 350W) \times 40 = (70M + 100W) \times D$$

$$\Rightarrow (1000W + 350W) \times 40 = (350W + 100W) \times D$$

$$\Rightarrow D = \frac{1350 \times 40}{450} = 120 \text{ days}$$

Hence, option D is correct.

2. Ratio of investments = 2 : 3

Ratio of time period of their investments = 3 : 2

Profit will be shared in the ratio  $(2 \times 3) : (3 \times 2) = 1 : 1$

$$\text{Anil's share} = \frac{1}{2} \times 10000 = \text{Rs. } 5000$$

Hence, option C is correct.

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3. Let, speed of Dutee Chand be  $x$  m/s

P.T. Usha gives Dutee Chand a start of 4 m.

According to problem,

$$\frac{100 - 4}{x} - \frac{100}{5} = 4$$

$$\Rightarrow \frac{96}{x} - 20 = 4$$

$$\Rightarrow \frac{96}{x} = 24$$

$$\Rightarrow x = \frac{96}{24}$$

$$\Rightarrow x = 4$$

$\therefore$  Speed of Dutee Chand = 4 m/s

**Alternate solution:-**

Time taken by P.T. Usha to cover 100m  
 $= \frac{100}{5} = 20\text{sec}$

As Dutee Chand took 4 sec more than P.T Usha and was given a start of 4m

So, Time taken by Dutee Chand to cover  $(100 - 4)$  m =  $(20 + 4)$  sec

So, Dutee Chand covered 96 m in 24 sec.

$$\text{Speed of Dutee Chand} = \frac{96}{24} = 4 \text{ m/s}$$

Hence, option A is correct.

4.

$$\text{SP} = \frac{400 \times 80}{100} = \text{Rs. } 320$$

$$\text{CP} = \frac{300}{320} \times 320 = \text{Rs. } 300$$

Hence, option A is correct.

5. Let the quantity of pomegranate bought be  $x$  kg and that of pineapple be  $(60 - x)$  kg.

∴ According to the question,

$$\Rightarrow 15x + (60 - x) 10 = 700$$

$$\Rightarrow 15x + 600 - 10x = 700$$

$$\Rightarrow 5x + 600 = 700$$

$$\Rightarrow 5x = 100$$

$$\therefore x = 20$$

Hence, option B is correct.

6. Sum of present age of Ashish, Bhuvan and Chanchlani =  $98 - 4 \times 3 = 98 - 12 = 86$  years

Present age of Chanchlani =  $86 - (32 + 23) = 31$  years

Age of Chanchlani after 4 years =  $31 + 4 = 35$  years

Hence, option C is correct.

7.

$$\text{Simple interest} = \frac{P \times R \times T}{100} = \frac{293 \times 21 \times 3}{100}$$

$$= \text{Rs.}184.59$$

Hence, option B is correct.

8. Total time taken to cover  $4x$  km

$$= \left(\frac{x}{20}\right) + \left(\frac{3x}{80}\right) = \frac{7x}{80}$$

$$\text{Speed} = \frac{\text{distance}}{\text{time}}$$

$$= 4x \times \frac{80}{7x}$$

$$= 45\frac{5}{7} \text{ km/h}$$

Hence, option A is correct.

9. Part of the tank filled by  $T_1$ ,  $T_2$  and  $T_3$  in 1 hour =  $1/6$

Part of the tank filled by  $T_1$ ,  $T_2$  and  $T_3$  in 2 hours =  $1/3$

Remaining part to be filled =  $\left(1 - \frac{1}{3}\right) = \frac{2}{3}$

Time taken by  $T_1$  and  $T_2$  to fill  $2/3^{\text{rd}}$  part = 8 hours

$\therefore$  Time taken to fill whole tank by  $T_1$  and  $T_2$

$$= \left(8 \div \frac{2}{3}\right) = 12 \text{ hours}$$

Hence, option D is correct.

10. Let the consecutive even numbers be

$2x$ ,  $(2x + 2)$ ,  $(2x + 4)$ ,  $(2x + 6)$ ,  $(2x + 8)$ ,  $(2x + 10)$  and  $(2x + 12)$

So, according to question,

$$1.40 \times 2x = 2x + 12$$

$$2.8x - 2x = 12$$

$$0.8x = 12$$

$$\Rightarrow x = 15$$

So, the numbers are 30, 32, 34, 36, 38, 40 and 42

Average of these numbers

$$= \frac{(30 + 42)}{2} = \frac{72}{2} = 36$$

Hence, option B is correct.



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