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9. 12 Kg of Rice costing Rs. 30 per kg is mixed with 8 kg of rice costing Rs. 40 per kg. The average per kg price of mixed rice is

A. Rs. 32

B. Rs. 33

C. Rs. 34

D. Rs. 36

10. A boat running downstream covers a distance of 20 km in 2 hrs. While it covers the same distance upstream in 5 hrs. Then speed of boat in still water is

A. 7 km/hr

B. 8 km/hr

C. 9 km/hr

D. 10 km/hr

Correct Answers:

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

Explanations:

1. The sum of money becomes 900 in 2 years & 950 in 3 years

So, from 2nd to 3rd year S.I. = Rs. 50

As. S.I. Remains Same every year,

hence the principal was = Rs. $(900 - 100) = \text{Rs. } 800$

Hence, option A is correct.

2. Let the C.P. of 1 book = Rs. 1

So, C.P. of 36 books = Rs. 36

As. C.P. of 36 books = S.P. of 30 books

So, S.P. of 30 books = Rs. 36

& we know, C.P. of 30 books = Rs. 30

$$\% \text{ profit} = \frac{36 - 30}{30} \times 100$$

$$\Rightarrow \frac{60}{30} = \frac{60}{3} = 20\%$$

Hence, option C is correct.

3. Relative speed = $40 - 20 = 20$ kmph

$$20 \text{ kmph} = 20 \times \frac{5}{18} \text{ m/s}$$

$$\text{Length of faster train} = \text{Speed} \times \text{time} = \frac{20 \times 5}{18} \times 5$$

$$= 27\frac{7}{9} \text{ meter}$$

Hence, option C is correct.

4. Let initial quantity of milk and water be $7x$ and $5x$ respectively.
When 15 liters of water added ratio becomes $7/8$

$$\Rightarrow \frac{7x}{5x + 15} = \frac{7}{8}$$

$$\Rightarrow 56x = 35x + 105$$

$$\Rightarrow 56x - 35x = 105$$

$$\Rightarrow 21x = 105$$

$$\Rightarrow x = \frac{105}{21} = 5$$

$$\Rightarrow x = 5$$

$$\text{Initial quantity of water} \Rightarrow 5x = 5 \times x = 25$$

$$\text{New quantity of water} \Rightarrow 25 + 15 \Rightarrow 40 \text{ liters}$$

Hence, option B is correct.

5. Given,

$$\text{LCM} = 450$$

$$\text{HCF} = 10$$

$$\text{One number} = 50$$

To find: Second number

Let the second be X

$$\text{LCM} \times \text{HCF} = 1^{\text{st}} \text{ number} \times 2^{\text{nd}} \text{ number}$$

Putting the values

$$450 \times 10 = 50 \times X$$

$$X = 90$$

Hence, option B is correct.

6. Circumference of wheel = $2\pi r$

$$= 2 \times \frac{22}{7} \times 21 \text{ cm} = 132 \text{ cm}$$

$$\therefore \text{Number of revolutions} = \frac{92400 \text{ cm}}{132 \text{ cm}} = 700$$

Hence, option D is correct.

7. **Approach I:**

Given,

$$\text{Ratio of B's \& A's respective age} = \frac{7}{4}$$

Let's B's age = $7x$ and A's age = $4x$

As per the question,

$$(7x - 7) = 2(4x - 7)$$

$$\Rightarrow 7x - 7 = 8x - 14$$

$$\Rightarrow x = 7 \therefore x = 7$$

\therefore B's present age = $7 \times 7 = 49$ years and A's present age = $4 \times 7 = 28$ years

\therefore Sum of their ages = $49 + 28 = 77$ years.

Intuitive Approach: The only option which is completely divisible by the sum of the terms of the given ratio ($7 + 4 = 11$) is 77 (option C).

Therefore, option C is the correct answer.

8. Let the total number of employees be x .

$$\therefore x \times \frac{75}{100} = 30000$$

$$\Rightarrow x = \frac{30000 \times 100}{75} = 40000$$

Hence, option C is correct.

9. Average cost price of 20 kg of mixed rice

$$\Rightarrow \text{Rs. } \frac{12 \times 30 + 8 \times 40}{12 + 8}$$

$$\Rightarrow \text{Rs. } \frac{360 + 320}{20}$$

$$\Rightarrow \text{Rs. } \frac{680}{20} = \text{Rs. } 34$$

Hence, option C is correct.

10. Let the speed of boat in still water be x kmph and that of stream be y kmph.

$$\therefore \frac{20}{x+y} = 2, \frac{D}{\text{Speed of downstream}} = T$$

$$x + y = 10 \dots\dots\dots(\text{i})$$

$$\& \frac{20}{x-y} = 5, \frac{D}{\text{Speed of upstream}} = T$$

$$x - y = 4 \dots\dots\dots(\text{ii})$$

Adding eq. (i) and (ii)

$$x + y = 10$$

$$\underline{x - y = 4}$$

$$2x = 14$$

$$x = 7$$

So the speed of boat in still water is 7 kmph

Hence, option A is correct.



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The Question Bank

Hence, option C is correct.



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