Banking Daily Quiz Blog - February 15

1. 'A' invested Rs.4000 and 'B' invested Rs.1000 more than A. After eight months 'C' invested Rs.3000. If at the end of the year 'C' gets profit of Rs.700, then find the total profit.

A) **Rs.7000**

B) Rs.8400

C) Rs.5600

D) Rs.8800

E) Rs.6400

Solution

Profit sharing ratio of A, B & C

= (4000 × 12) : (4000 +1000) × 12 : (3000 × 4)

= 48000 : 60000 : 12000

= 4 : 5 : 1

Let total profit be Rs. P

ATQ,

$$\frac{1}{(4+5+1)} \times P = 700$$

P = Rs. 7000

2. **440 meters long train passes a platform in 80 seconds. If speed of train is increased by 3 m/sec, then it crosses a pole in 22 seconds. Find the length of platform.**

A   720m

B   840m

C   700m

D   **920m**

E   900m

Solution

Let speed of train be 'V' m/sec'

And let length of platform be 'l meters.

ATQ,

$\frac{l+440}{80} = V$ … (i)

And,

$\frac{440}{22} = V + 3$

$\Rightarrow V = 17 \ldots$ (ii)

Put value of (ii) in (i),

$\frac{l+440}{80} = 17$

$l = 1360 - 440$

$l = 920$ m

3. **Selling price of an article becomes Rs.2160 after giving two successive discounts of x% and 25% and marked price of article is Rs.3600. Find the cost price of article if there is a profit of x% on selling the article after giving two successive discounts.**

A   Rs. 1720

B   Rs.1500

C   Rs.1600

D   **Rs.1800**

E   Rs.1900

Solution

ATQ,

$$2160 = 3600 \times \frac{75}{100} \times \frac{100-x}{100}$$

$$2160 = 2700 - 27x$$

27x = 540

x = 20

So, required amount $= 2160 \times \frac{100}{120}$

= Rs. 1800

4. **Speed of boat in still water is six times of speed of stream. If boat covers 210 km in upstream in 7 hours, then find the downstream speed of boat?**

A **42 km/hr.**

B 36 km/hr.

C 30 km/hr.

D 32 km/hr.

E 24 km/hr.

Solution

Let speed of stream be x km/hr.

So, speed of boat in still water = 6x km/hr.

ATQ,

$$\frac{210}{7} = (6x - x)$$

= 5x = 30

x = 6 km/hr

So, required downstream speed of boat = (6x + x) = 7x = 42 km/hr

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5. **Length of rectangle 'A' is 125% of its breadth and area of rectangle 'A' is 1280 cm². If width of rectangle 'A' is half of the side of a square, then find perimeter of square.**

A   72 m

B   **64 m**

C   84 m

D   96 m

E   60 m

Solution

Let width of rectangle A be '4x meters'

So, length of rectangle A = $4x \times \frac{125}{100}$ = 5x meters

ATQ,

$4x \times 5x = 1280$

$20x^2 = 1280$

$x^2 = 64$

$x = 8$

Hence, side of square = $2 \times 8 = 16$ cm

Required perimeter = $4 \times 16 = 64$ cm

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6. **The average weight of a class of 45 girls is 53 kg. It was later found that weight of two girls was read as 49 kg and 57 kg instead of 45 kg and 52 kg. Find the actual average weight of the class.**

A	54 kg

B	53.40 kg

C	50.6 kg

D	**52.80 kg**

Solution

Required average $=53-\frac{[(49+57)-(45+52)]}{45}$

$= 53 - \frac{9}{45}$

$= 52.80$ kg

7. **There are 75% boys out of total students (boys + girls) in a school and 39% of the total students of the school went on a picnic. If 32% of the total boys went on a picnic, then find what percent of total girls went on a picnic?**

A   **60%**

B   90%

C   75%

D   80%

E   50%

Solution

Let total students in the school be 100x.

So, number of students went on the picnic = 39x

And, number of boys went on the picnic = $75x \times \frac{32}{100} = 24x$

So, number of girls went on the picnic = $39x - 24x = 15x$

Required percentage = $\frac{15x}{25x} \times 100 = 60\%$

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8. **A & B together can complete a piece of work in 9 days. Time taken by A alone to complete the same work is 7.5 days less than time taken by B alone to complete the same work. In how many days B alone will complete $\frac{2}{9}$ of the work?**

A   8 days

B   6 days

C   7 days

D   **5 days**

E   4 days

Solution

Let time taken by B alone to complete the work be x days.

So, time taken by A alone to complete the same work $= (x - 7.5)$ days

ATQ,

$\frac{1}{x-7.5} + \frac{1}{x} = \frac{1}{9}$

$x = 3, \frac{45}{2}$

x cannot be 3 as time taken by A alone cannot be negative.

Required time $= \dfrac{1 \times \frac{2}{9}}{\frac{1}{\frac{45}{2}}} = 5$ days