



Exercise 7B

Q1

Answer :

Let the number be x .

Then, we have :

$$\Rightarrow 2x - 7 = 45$$

$$\Rightarrow 2x = 45 + 7$$

$$\Rightarrow x = \frac{45+7}{2}$$

$$\Rightarrow x = \frac{52}{2}$$

$$\Rightarrow x = 26$$

\therefore The required number is 26.

Q2

Answer :

Let the number be x .

Then, we have:

$$\Rightarrow 3x + 5 = 44$$

$$\Rightarrow 3x = 44 - 5$$

$$\Rightarrow x = \frac{44-5}{3}$$

$$\Rightarrow x = \frac{39}{3}$$

$$\Rightarrow x = 13$$

\therefore The required number is 13

Q3

Answer :

Let the number be x .

Then, we have:

$$\Rightarrow 2x + 4 = \frac{26}{5}$$

$$\Rightarrow 2x = \frac{26}{5} - 4$$

$$\Rightarrow 2x = \frac{26-20}{5}$$

$$\Rightarrow x = \frac{6}{10}$$

$$\Rightarrow x = \frac{3}{5}$$

\therefore The required fraction is $\frac{3}{5}$.

Q4

Answer :

Let the required number be x .

Then, we have:

$$\Rightarrow x + \frac{x}{2} = 72$$

$$\Rightarrow \frac{2x+x}{2} = 72$$

$$\Rightarrow \frac{3x}{2} = 72$$

$$\Rightarrow 3x = 72 \times 2$$

$$\Rightarrow x = \frac{72 \times 2}{3}$$

$= 48$

\therefore The required number is 48.

Q5

Q5

Answer :

Let the required number be x .

Then, we have:

$$\Rightarrow x + \frac{2x}{3} = 55$$

$$\Rightarrow \frac{3x+2x}{3} = 55$$

$$\Rightarrow 5x = 55 \times 3$$

$$\Rightarrow x = \frac{55 \times 3}{5}$$
$$= 33$$

\therefore The required number is 33.

Q6

Answer :

Let the required number be x .

Then, we have:

$$\Rightarrow 4x - x = 45$$

$$\Rightarrow 3x = \frac{45}{3}$$

$$\Rightarrow x = 15$$

\therefore The required number is 15.

Q7

Answer :

Let the number be x .

Then, we have:

$$(x - 21) = (71 - x)$$

$$\Rightarrow x + x = 71 + 21$$

$$\Rightarrow 2x = 92$$

$$\Rightarrow x = \frac{-9-2^{46}}{-2_1}$$

$$\Rightarrow x = 46$$

\therefore The required number is 46.

Q8

Answer :

Let the original number be x .

Then, we have:

$$\Rightarrow \frac{2}{3}x = x - 20$$

$$\Rightarrow \frac{2x}{3} - x = -20$$

$$\Rightarrow \frac{2x-3x}{3} = -20$$

$$\Rightarrow -x = -20 \times 3$$

$$\Rightarrow x = 60$$

\therefore The original number is 60.

Q9

Answer :

Let the number be x .

Then, the other number will be $\frac{2x}{5}$.

Now, we have:

$$\Rightarrow x + \frac{2x}{5} = 70$$

$$\Rightarrow \frac{5x+2x}{5} = 70$$

$$\Rightarrow \frac{7x}{5} = 70$$

$$\Rightarrow x = \frac{-7-0^{10} \times 5}{-7_1}$$

***** END *****