Exercise 7B

Q1

Answer :

Let the number be x.

Then, we have :

$\Rightarrow 2x - 7 = 45$

$\Rightarrow 2x = 45 + 7$

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

$\Rightarrow x = \frac{\cancel{5}\cancel{2}^{26}}{\cancel{2}_{1}}$

$\Rightarrow x = 26$

$\therefore$ The required number is 26.

Q2

Answer :

Let the number be x.

Then, we have:

$\Rightarrow 3x + 5 = 44$

$\Rightarrow 3x = 44 - 5$

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

$\Rightarrow x = \frac{\cancel{3}\cancel{9}^{13}}{\cancel{3}_{1}}$

$\Rightarrow x = 13$

$\therefore$ The required number is 13

Q3

Answer :

Let the number be x.
Then, we have:

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

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

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

$\Rightarrow x = \frac{6^{3}}{10_{5}}$

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

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

Q4

Answer :

Let the required number be x.
Then, we have:

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

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

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

$\Rightarrow 3x = 72 \times 2$

$\Rightarrow x = \frac{72^{24} \times 2}{3_{1}}$

$= 48$

$\therefore$ The required number is 48.

Q5

Q5

Answer :

Let the required number be x.

Then, we have:

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

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

$\Rightarrow 5x = 55 \times 3$

$\Rightarrow x = \frac{\cancel{5}\cancel{5}^{11} \times 3}{\cancel{5}_{1}}$

$= 33$

$\therefore$ 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:

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

$\Rightarrow x + x = 71 + 21$

$\Rightarrow 2x = 92$

$$\Rightarrow x = \frac{\cancel{92}^{46}}{\cancel{2}_{1}}$$

$$\Rightarrow x = 46$$

$\therefore$ 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:

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

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

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

$$\Rightarrow x = \frac{\cancel{70}^{10} \times 5}{\cancel{7}_{1}}$$

********** END **********