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Teaching Learning Material

Class – 7th   Subject – Mathematics

Section – All   class teacher –Bandana Kumari

Word Problems

EXAMPLES :-

1. Add 4 to eight times a number to get 60.

Sol. let the no. Be x.

8times the number is 8x.

Adding 4 to 8 times the number will become 8x+4.

But, this sum is equal to 60.

Thus, $8x+4=60$

$8x=60-4$

$8x=56$

On dividing both sides by 8 ,we get

$$\frac{8x}{8}=\frac{56}{8}$$

$x=7$ Ans.

2. If I take three forth of a number and add 3 to it, I get 21.

Sol. let the number be x, then $\frac{3}{4}$ of the number is $\frac{3}{4}x$.

On, adding 3 to it we get

$$\frac{3}{4}x+3=21$$

$$\frac{3}{4}x = 21 - 3$$

$$\frac{3}{4}x = 18$$

Multiply both sides by $\frac{4}{3}$, we get-

$$\frac{3x}{4} \times \frac{4}{3} = 18 \times \frac{4}{3}$$

$$x = 6 \times 4 = 24 \text{ Ans.}$$

3. Munna subtracts thrice the number of notebooks he has from 50. He finds the result to be 8.

Sol. Let x be the number of notebooks Munna has, then

3x subtracted from 50 gives –

$$50 - 3x = 8$$

$$-3x = 8 - 50$$

$$-3x = -42$$

On dividing both sides by -3, we get –

$$\frac{-3x}{-3} = \frac{-42}{-3}$$

$$x = 14 \text{ Ans.}$$

4. Kumar thinks of a number. If she adds 19 to it and divides the sum by 5, she will get 8. find the number.

Sol. Let the number be x.

$$(x + 19) \div 5 = 8$$

$$\frac{x + 19}{5} = 8$$

Multiplying both sides by 5

$$\frac{(x + 19) \times 5}{5} = 8 \times 5$$

$$x + 19 = 8 \times 5$$

$$x = 40 - 19 = 21 \underline{\text{Ans.}}$$

5. Anwar thinks of a number. If he takes away 7 from $\frac{5}{2}$ of the number the result is $\frac{11}{2}$. Find the number.

sol. let the required number Anwar thinks be x.

Then, $\quad \frac{5}{2}x - 7 = \frac{11}{2}$

$$\frac{5}{2}x = \frac{11}{2} + 7$$

$$\frac{5}{2}x = \frac{11 + 14}{2}$$

$$\frac{5}{2}x = \frac{25}{2}$$

Multiply both sides by $\frac{2}{5}$

$$\frac{2}{5} \times \frac{5}{2}x = \frac{25}{2} \times \frac{2}{5}$$

$$x = 5 \underline{\text{Ans.}}$$

So, Anwar thinks of 5.

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