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Teaching Learning Material

Class – 7th   Subject – Mathematics

Section – All   class teacher –Bandana Kumari

Word Problems

EXAMPLES:-

1. The teacher tells the class the highest marks obtained by

   a student in her class is twice the lowest marks plus 7.

   The highest marks is 87. What is the lowest marks?

Sol. let the lowest marks be x.

$$2x + 7 = \text{highest marks}$$

$$2x + 7 = 87$$

$$2x = 87 - 7$$

$$2x = 80$$

On dividing both sides by 2, we get

$$x = \frac{80}{2}$$

$$x = 40$$

so, the lowest marks is 40.

2. Sachin scored twice as many runs as rahul. Together

   their score fell two short of a double century. How many

   runs did each one scores?

Sol. let the rahul scores $=x$

Sachin's score $=2 \times$ rahul score

$$=2x$$

Now, as per questions,

$$x + 2x = 200 - 2$$

$$3x = 198$$

$$x = \frac{198}{3}$$

$$x = 66$$

So, rahul's score $= 66$

Sachin's score $= 66 \times 2$

$$= 132.$$

3. laxmi's father is 49 years old. He is 4 years older than three times laxmi's age. What is the laxmi's age?

Sol. let laxmi's age $= x$

Father's age $= 3x + 4$

Also, $49 = 3x + 4$

A/Q,

$$3x = 49 - 4$$

$$3x = 45$$

$$x = \frac{45}{3} = 15$$

So, laxmi's age is 15 years.

4. People of sundar gram planted a total of 102 trees in the village garden. Some of the trees were fruit trees. The numbers of non-fruit trees were 2 more than three times the number of fruit tree. Find the number of fruit tree planted.

Sol. let the number of fruit tree = x

Number of non-fruit trees = 3x+2

A/Q,

$$(x) + (3x+2) = 102$$

$$4x+2=102$$

$$4x = 102 - 2$$

$$4x = 100$$

On dividing both sides by 4, we get –

$$X= \frac{100}{4}= 25 \text{ Ans.}$$

5. Solve the following riddle :

I am a number. Tell my identity. Take me 7 times and add fifty. To reach a triple century, you still need forty.

(Try it yourself)

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