

# MATHEMATICS

**Class-7th**

**Chapter-4**

**Exercise-4.4**

**Part-III**

**complete solution  
of Q.3(ii), (iii) & Q.4**

**--By-AKJ**

Ex - 4.4

Q.3(ii) Sol.

Let Laxmi's age be  $x$  years.

Laxmi's father is 49 years old is 4 years older than three times Laxmi's age.

3 times Laxmi's age =  $3 \times x = 3x$

Add 4 to it =  $3x + 4$

So, equation becomes:

$3x + 4 = 49$  — (i)

on transposing 4, we get

$\Rightarrow 3x = 49 - 4$

$\Rightarrow 3x = 45$

on dividing both sides by 3, we get

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

$\Rightarrow$   $x = 15$

Hence, Laxmi's age be 15 years.

Check: Put  $x = 15$  in LHS of (i) we get,  
 $\rightarrow$

$$\begin{aligned}\underline{\text{LHS}} &= 3 \times 15 + 4 \\ &= 45 + 4 \\ &= 49 = \underline{\text{RHS}}.\end{aligned}$$

Hence,  $x = 15$  is verified.

(iii) Sol.

Let number of fruit trees  
planted be  $x$ .

Some of fruit trees and three  
times the number of fruit trees  
 $= 3 \times x = 3x$ .

No. of non-fruit trees  $= 3x + 2$

And no. of non-fruit trees  $= 77$

A/q,  $\boxed{3x + 2 = 77}$  — (i)

on transposing 2 from LHS to RHS

$$\Rightarrow 3x = 77 - 2$$

$$\Rightarrow 3x = 75$$

on dividing '3' to both sides

We get,

$$\Rightarrow \frac{3x}{3} = \frac{75}{3}$$

$$\Rightarrow \boxed{x = 25}$$



Hence,

Number of fruit trees = 25.

check:

put  $x = 25$  in LHS of eq(i)

we get,

$$\begin{aligned}\underline{\text{LHS}} &= 3x + 2 \\ &= 3 \times 25 + 2 \\ &= 75 + 2 \\ &= 77 = \underline{\text{RHS}}\end{aligned}$$

Hence,  $x = 25$  is verified.

Q.4. Sol.

Let required number be  $x$ .

(i) Seven times of this no =  $7x$

(ii) Add 50 to it  
=  $7x + 50$ .

(iii) To reach a triple century, we need forty,

So, equation becomes:

$$\Rightarrow 7x + 50 + 40 = 300$$

$$\Rightarrow \boxed{7x + 90 = 300} \quad \text{--- (1)}$$

on transposing 90, we get,

$$\Rightarrow 7x = 300 - 90$$

$$\Rightarrow 7x = \underline{210}.$$

on dividing both sides by 7,  
we get

$$\Rightarrow \frac{7x}{7} = \frac{210}{7}$$

$$\Rightarrow x = \underline{30} \quad \checkmark$$

Hence, Required no = 30.

Check:

put  $x = 30$  in LHS of eq (i)

we get.

$$\underline{\text{LHS}} = 7x + 90 = 300$$

$$= \underline{7 \times 30 + 90}$$

$$= \underline{210 + 90}$$

$$= \underline{300} = \underline{\text{RHS.}}$$

Hence,  $x = 30$  is verified.