Class 7-Mathematics

Instructions for students: The notes provided must be copied to the Maths copy and then do the homework in the same copy.

Chapter 9

Linear Equations- part 2

Solving word problems:

Exercise 9.2

6. Let the three consecutive natural numbers be x, x+2 and x+4.

A/Q, x+(x+2)+(x+4) = 87

$$\Rightarrow 3x+6 = 87$$

$$\Rightarrow 3x = 87-6$$

$$\Rightarrow 3x = 81$$

$$\Rightarrow x = \frac{81}{3}$$

$$= 27$$

Required odd numbers are, 27, 29 and 31.

12. Let my present age be x.

4 years ago my age was x - 4

After 12 years my age will be x + 12

A/Q, x + 12 =
$$3(x-4)$$

$$\Rightarrow x + 12 = 3x - 12$$
or $3x - 12 = x + 12$

$$\Rightarrow 3x - x = 12 + 12$$

$$\Rightarrow 2x = 24$$

$$\Rightarrow x = \frac{24}{3} = 12$$

My present age is 12.

14. Let the breadth of the rectangular plot be x metres.

Length =
$$3x - 6$$

$$2(l+b) = 148m$$

$$A/Q$$
, $2(3x - 6 + x) = 148$

$$\Rightarrow$$
2(4x - 6) = 148

$$\Rightarrow 4x - 6 = \frac{148}{2}$$

$$\Rightarrow 4x - 6 = 74$$

$$\Rightarrow$$
4x = 74 + 6 = 80

$$\Rightarrow$$
x = $\frac{80}{4}$ = 20

length =
$$3 \times 20 - 6$$

=54 m

Home work: Solve Exercise 9.2 Questions 2, 4, 5, 9, 11, 13 in the Maths copy.

Practise all questions from Exercise 9.2.