

Class-six Subject- Math Chap -5(Simple Equations) Date 15/07/2020

Practice Work Sheet with Solution

- 1. Convert the following statements into equations.
- (a) 5 added to a number is 9.
- (b) 3 subtracted from a number is equal to 12.
- (c) 5 times a number decreased by 2 is 4.
- (d) 2 times the sum of the number x and 7 is 13

**2.**Seven times the number is 36 less than 10 times the number. Find the number.

3.18 is taken away from 8 times of a number is 30. Find the number.

4. In a triangle, the second angle is  $5^{\circ}$  more than the first angle. And the third angle is three times of the first angle. Find the three angles of the triangle.

5. If thrice of A's age 6 years ago be subtracted from twice his present age, the result would be equal to his present age. Find A's present age

6. A number is 12 more than the other. Find the numbers if their sum is 48.

7. Rene is 6 years older than her younger sister. After 1 0 years, the sum of their ages will be 50 years. Find their present ages

Work Sheet Solution:

Solution **1**. (a) x + 5 = 9 (b) x - 3 = 12 (c) 5x - 2 = 4

(d) 2(x + 7) = 13

2.Ans 12,30(Do yourself)

3.

Solution:

Let "x" be the number.

Therefore, 8 times of the number = 8x

Given,18 is taken away from 8 times of the number is 30

Accounting to the question

8x - 18 = 30 Or,8x = 30+18

Or,8x = 48

Or,  $x = \frac{48}{8}$ 

So, x =6

Hence, the number is 6. (Ans)

4. Solution:

Let  $x^{\circ}$  be the first angle.

Then, we have

the second angle =  $x^{\circ} + 5$ 

and third angle =  $3 \cdot x^{\circ}$ 

We know that the sum of three angle in any triangle is  $180^{\circ}$ .

According to the Question

 $x^{\circ} + (x^{\circ} + 5^{\circ}) + (3 \cdot x^{\circ}) = 180^{\circ}$ Or, x + x + 5 + 3x = 180Or, 5x + 5 = 180Or, 5x = 175Divide both sides by 5. So, x = 35The first angle is  $35^{\circ}$ . The second angle is  $= 35^{\circ} + 5^{\circ}$  $= 40^{\circ}$ And The third angle is  $= 3 \cdot 45^{\circ}$ 

= 135°

Hence, the three angles of the triangle are  $35^{\circ}$ ,  $40^{\circ}$  and  $135^{\circ}$ (Ans)

5. Solution:

Let "x" be A's present age.

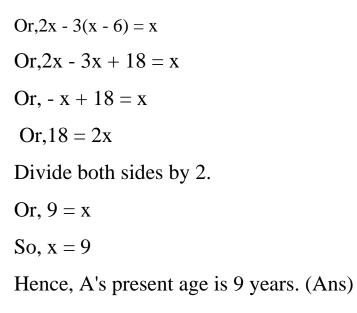
A's age 6 years ago = x - 6

Thrice of A's age 6 years ago = 3(x-6)

Twice his present age = 2x

Given, Thrice of A's age 6 years ago be subtracted from twice his present age, the result would be equal to his present age.

Accounting to the question



Solution: 6 and 7 (Do yourself)