Cosmo School

**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° 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° be the first angle.

Then, we have

the second angle = x° + 5

and third angle = $3 \cdot x°$

We know that the sum of three angle in any triangle is 180°.

According to the Question

$x° + (x° + 5°) + (3 \cdot x°) = 180°$

Or, $x + x + 5 + 3x = 180$

Or,$5x + 5 = 180$

Or,$5x = 175$

Divide both sides by 5.

So, $x = 35$

The first angle is 35°.

The second angle is

$= 35° + 5°$

$= 40°$

And The third angle is

$= 3 \cdot 45°$

$= 135°$

Hence, the three angles of the triangle are 35°, 40° and 135°(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

Or,2x - 3(x - 6) = x

Or,2x - 3x + 18 = x

Or, - x + 18 = x

Or,18 = 2x

Divide both sides by 2.

Or, 9 = x

So, x = 9

Hence, A's present age is 9 years. (Ans)

Solution: 6 and 7 (Do yourself)