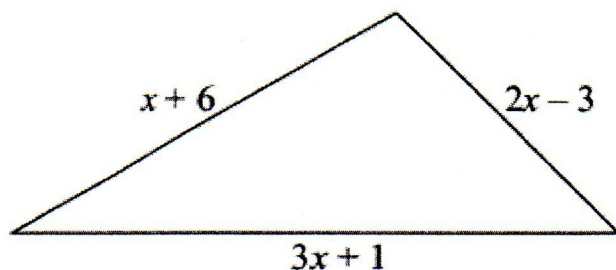# Application of Linear Equation

Make equation and solve

1. The sum of two consecutive numbers is 23. Find numbers.

   _____ , _____

2. The sum of two consecutive numbers is 73. Find numbers.

   _____ , _____

3. The sum of three consecutive numbers is 72. Find numbers.

   _____ , _____ , _____

4. The sum of three consecutive numbers is 51. Find numbers.

   _____ , _____ , _____

5. The sum of three consecutive numbers is 78. Find numbers.

   _____ , _____ , _____

6. Sarah's age is 15 years. Her sister is one year less than triple of her age. Find her sister's age.

   _____

7. I thought a number double it, take away 5 from it and divided the result by 4, the answer is 5 find the number.

   _____

8. A triangle has angles, in the order x, 2x, 3x. Find each angle.

   _____ , _____ , _____

9. The perimeter of a square is 64cm. Find the length of each side.

   _____

10. The perimeter of a rectangle is 36 cm and its length is twice of width, find length and width.

   _____ , _____

11. In the diagram, all measurements are in centimetres.
The lengths of the sides of the triangle are $x + 6$, $2x - 3$ and $3x + 1$

$x + 6$ $2x - 3$

$3x + 1$

(a) Find an expression, in terms of x, for the perimeter of the triangle.
Give your expression in its simplest form.

_____

The perimeter of the triangle is 37 cm.
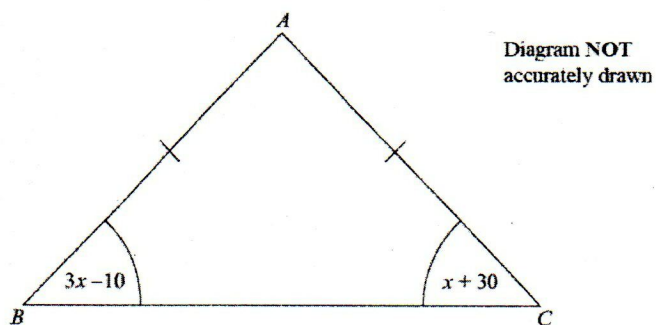(b) Find the value of x.

$x =$_____

12. If $F = 1.8C + 32$
(a) Work out the value of F when $C = -8$

_____

(b) Work out the value of C when $F = 68$

_____

13. From the given figure find the value of x.

A

Diagram NOT
accurately drawn

$3x - 10$ $x + 30$

B   C

$x =$_____

14 If $B = 2k + 12$ and $k = 5$ Work out the value of B.

$B =$_____

15 If $T = 4w - 2$
$T = 22$, Work out the value of w.

$w =$_____