

# Maths Worksheet 7

## Algebra

1. Express statements in Algebraic Form:

(i)  $p$  decreased by 5

(ii)  $z$  increased by 2 times  $x$

(iii) Product of 8 and  $y$

(iv) 10 added to 3 times  $x$

(v) Product of 3 and  $z$  is divided by 5

(vi)  $y$  multiplied by 8 and then 4 is subtracted from the product

2. Write the expression in words:

(i)  $3y - 2$  (ii)  $x^5 - 12$  (iii)  $-5x + 16$  (iv)  $7m$  (v)  $2x + 8$  (vi)  $7 - 3$

3. The side of a regular pentagon is ' $a$ '. Find its Perimeter.

4. If the side of an equilateral triangle is ' $s$ ', then express the perimeter of the triangle in the terms of ' $s$ '.

5. If the diameter of a circle is  $4r$ . Find its radius.

6. Bharat is 10 years older than his brother Ram. If Ram is  $x$  years. What is Bharat's age 3 years from now?

7. Shiv read  $x$  number of pages in a book. Ganesh read 2 less than Shiv, while Nanak has read 10 more than Shiv. Find how many pages Ganesh and Nanak has read in all.

8. Find the value of the following:

- |                         |      |
|-------------------------|------|
| (a) $2^3$               | 8    |
| (b) $(-3)^2 \times 2^3$ | 1/16 |
| (c) $(\frac{1}{4})^2$   | 72   |
| (d) $(-7)^3$            | 343  |
| (e) $(-\frac{3}{4})^2$  | 9/16 |