## SANGAM SKM COLLEGE YEAR 10 : MATHEMATICS WORKSHEET 2 WEEK 3

1. Pressure (P) is defined as 
$$P = \overline{A}$$

- (i) Make *A* the subject of the formula
- (ii) If F = 3 and P = 1/3, find the value of A.

2. A curved surface of a cylinder with radius, r and height, h, is given by

 $A = 2 \pi$  rh

(i) Make h the subject

Find the height, h when r = 4cm and the surface area is 150 cm<sup>2</sup>.

- 3. If m = -3, n = 2, p = -1, find the value of:
  - (i) m n  $\frac{m+n}{p}$ (ii) m<sup>2</sup> - n<sup>2</sup>

4. Solve each of the following equations:

(i) 
$$\frac{2x-7}{3} = 5$$
 (ii)  $8r-4 = 3r+6$ 

(iii) 
$$\frac{y-6}{2} = 7$$
 (iv)  $6(3+c) = -18$ 

5. Solve each of the following equations:

(i) 6 m - 1 = 3m + 11 (ii)  $\frac{3}{2 - x} = 9$ 

(iii) 
$$\frac{6}{y} + 1 = 2$$