

## National 5 Homework

## Algebraic Skills

## Changing the Subject of the Formula

1. Change the subject of the formula of the formula below to  $r$ :

$$p = \frac{5rs}{t}$$

2. The formula for the volume of a cylinder is given by

$$V = \pi r^2 h.$$

Change the subject of this formula to  $r$ .

3. Change the subject of the formula below to  $v$ .

$$C = \frac{5(v-6)}{7}$$

4. Change the subject of the formula  $F = \frac{t^2 + 4b}{c}$  to  $b$  [SQA Paper 1 3 Marks]

5. The formula for the volume of a cone is

$$V = \frac{\pi r^2 h}{3}$$

Change the subject of the formula to  $r$ .

6. Change the subject of the formula below to  $h$ .

$$Q = \frac{5h^2}{n}.$$

7. Change the subject of the formula to  $w$ .

$$P = \frac{4(m+n)}{3w}$$

8. Change the subject of the formula  $L = \sqrt{4kt - p}$  to  $k$  [SQA Paper 2 3 Marks]