

### 5.3 Homework

#### GCSE Mathematics Algebra, Rearranging Formulae

##### Question 1

*Showing full working*, make  $x$  the subject

$$kx - 12p = 5k$$

##### Question 2

*Showing full working*, by first multiplying both sides by  $-1$ , make  $x$  the subject

$$g - x = 7 - \frac{3k}{z^2}$$

**Question 3**

*Showing full working*, by first expanding the brackets, make  $x$  the subject

$$6(3x + 2y) = z^2 + 1$$

**Question 4**

*Showing full working*, by first taking the reciprocal of both sides, make  $x$  the subject

$$\frac{w}{hx} = \frac{1}{k}$$

**Question 5**

*Showing full working*, make  $x$  the subject

$$b - a = 6 - \frac{1}{x}$$

**Question 6**

*Showing full working*, by first swapping the LHS and RHS, make  $x$  the subject

$$7 = \frac{x}{z^2 + 4m + 3s}$$

Write your answer without brackets.

**Question 7**

*Showing full working*, by first adding  $5zx$  to both sides, make  $x$  the subject

$$s = \sqrt{p} - 5zx$$

**Question 8**

*Showing full working*, by first expanding the brackets, make  $x$  the subject

$$m\left(\frac{x}{4} - 3p\right) = f$$

**Question 9**

*Showing full working*, by first swapping the LHS and RHS, make  $x$  the subject

$$3 + 2h = \frac{x + m}{9}$$

Write your answer without brackets.

**Question 10**

*Showing full working*, make  $x$  the subject

$$u = \frac{1}{4 - x}$$