

Rearranging Formulae

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **27**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

1 Rearrange $d = h - 7$ to make h the subject.

[1 mark]

$h =$ _____

2 Rearrange $k + 9 = m$ to make k the subject.

[1 mark]

$k =$ _____

3 Rearrange $y = 5x$ to make x the subject.

[1 mark]

$x =$ _____

4 Rearrange $t = 4s + 3$ to make s the subject.

[2 marks]

$s =$ _____

5 Rearrange $m = 6n - 11$ to make n the subject.

[2 marks]

$n =$ _____

6 Rearrange $w = \frac{v - 4}{5}$ to make v the subject.

[2 marks]

$v =$ _____

7 Rearrange $g = \frac{m}{6} - 5$ to make m the subject.

[2 marks]

$$m = \underline{\hspace{5cm}}$$

8 Rearrange $T = r + ks$ to make s the subject.

[2 marks]

$$s = \underline{\hspace{5cm}}$$

9 $A = lw$

Circle the formula for w .

[1 mark]

$$w = A - l$$

$$w = \frac{A}{l}$$

$$w = \frac{l}{A}$$

$$w = Al$$

- 10 Sam rearranges $y = 3x + 6$ to make x the subject.

He writes $x = \frac{y}{3} - 6$

Is he correct? Tick a box.

Give a reason for your answer.

[2 marks]

☐ Yes

☐ No

- 11 Rearrange $P = 2(l + w)$ to make l the subject.

[3 marks]

$l =$ _____

- 12 Rearrange $C = \frac{5(F - 32)}{9}$ to make F the subject.

[3 marks]

$F =$ _____

13 Rearrange $A = \pi r^2$ to make r the subject.

[2 marks]

$r =$ _____

14 The time, T minutes, to cook a turkey of weight w kg is given by

$$T = 15w + 30$$

(a) Rearrange the formula to make w the subject.

[2 marks]

$w =$ _____

(b) A turkey takes 120 minutes to cook.
Work out the weight of the turkey.

[1 mark]

Answer _____ kg