

**AQA, OCR, Edexcel**

**GCSE**

# GCSE Maths

## Rearranging Formulas Answers

Name:

**M**

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**E**

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Total Marks: /31

## Rearranging Formulas

1. Rearrange the formula to make  $x$  the subject:

$$a = \frac{2x + 6}{5} \quad x = \frac{5a - 6}{2}$$

(2 Marks)

2. Rearrange the formula to make  $a$  the subject:

$$4x = \frac{3(2a - 3)}{2} \quad a = \frac{4}{3}x + \frac{3}{2}$$

(2 Marks)

3. Rearrange the formula to make  $p$  the subject:

$$\frac{4(2x + 3)}{5} = \frac{3p}{4} \quad p = \frac{32}{15}x + \frac{16}{5}$$

(3 Marks)

4. Rearrange the formula to make  $x$  the subject:

$$2p + 5d = \frac{2(x + 6)}{4} \quad x = 10d + 4p - 6$$

(3 Marks)

5. Rearrange the formula to make  $y$  the subject:

$$x^2 = 2y^2 + \frac{1}{3} \quad y = \pm \sqrt{\frac{3x^2 - 1}{6}}$$

(2 marks)

6. Rearrange the formula to make  $a$  the subject:

$$(a + 2)^2 = 2(3 + 2) \quad a = -10 \pm \sqrt{10}$$

(4 Marks)

7. Rearrange the formula to make  $x$  the subject:

$$\frac{(\sqrt{(x + 1)})}{2} = \frac{4(2y + 2)}{4} \quad y = 16y^2 + 32y + 15$$

(4 Marks)

8. Rearrange the formula to make  $a$  the subject:

$$y = \frac{a + 1}{a - 1} \quad a = \frac{y + 1}{y - 1}$$

(3 Marks)

9. Rearrange the formula to make  $x$  the subject:

$$y + 2 = \frac{x - 3}{x + 2} \quad x = \frac{-(2y + 7)}{y + 1}$$

(4 Marks)

10. Rearrange the formula to make  $p$  the subject:

$$q = \sqrt{\frac{3 + p}{2 - p}} \quad p = \frac{2q^2 - 3}{1 + q^2}$$

(4 Marks)