GCSE Exam Questions

Rearranging Formulae | Algebra

GCSE Exam Questions: Rearranging Formulae

1)   Make g the subject of $f = 2g$ - 6.

(2 marks)

2)   Rearrange $p = \dfrac{4r}{7}$ to make r the subject.

(2 marks)

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GCSE Exam Questions: Rearranging Formulae

3) Given that $v^2 = u^2 + 2as$:

  (a) Work out the value of v when $u = 5$, $a = 2$ and $s = 3$.

  (3)

  (b) Make u the subject of the formula $v^2 = u^2 + 2as$

  (2)

  (c) Make s the subject of the formula $v^2 = u^2 + 2as$

  (2)

  (7 marks)

4) Rearrange $4x - y + 4 = 0$ to make x the subject.

  (2 marks)

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GCSE Exam Questions: Rearranging Formulae Answers

	Question	Answer	Marks
1)	Make g the subject of $f = 2g - 6$	$f + 6 = 2g$ $g = \dfrac{f + 6}{2}$	**(1)** **(1)**
2)	Rearrange $p = \dfrac{4r}{7}$ to make r the subject.	$7p = 4r$ $r = \dfrac{7p}{4}$	**(1)** **(1)**
3) (a)	$v^2 = u^2 + 2as$ Work out the value of v when $u = 5$, $a = 2$ and $s = 3$.	(a) $v^2 = 5^2 + 2 \times 2 \times 3$ $v^2 = 37$ $v = \sqrt{37}$ or 6.08 (to 2 dp)	**(1)** **(1)** **(1)**
(b)	Make u the subject of the formula $v^2 = u^2 + 2as$	(b) $u^2 = v^2 - 2as$ $u = \sqrt{v^2 - 2as}$	**(1)** **(1)**
(c)	Make s the subject of the formula $v^2 = u^2 + 2as$	(c) $2as = v^2 - u^2$ $s = \dfrac{v^2 - u^2}{2a}$	**(1)** **(1)**
4)	Rearrange $4x - y + 4 = 0$ to make x the subject.	$4x = y - 4$ $x = \dfrac{y - 4}{4}$	**(1)** **(1)**

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