

AQA, OCR, Edexcel

GCSE

GCSE Maths

Proportionality Questions

Name:

M M E

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Total Marks: /20

Proportionality

1. y is inversely proportional to x . When $x = 3, y = 24$.
 - a. Find a formula for y in terms of x .
 - b. Hence or otherwise.
 - i. Calculate the value of y when $x = 6$
 - ii. Calculate the value of x when $y = 4.8$

(5 Marks)

2. y is directly proportional to x^2 . When $x = 2, y = 36$.
 - a. Express y in terms of x .
 - b. Calculate the value of x when $y = 49$

(5 Marks)

3. y is inversely proportional to x^2 . $y = 3$ when $x = 4$.
 - a. Express y in terms of x .
 - b. Calculate the value of y when $x = 5$

(5 Marks)

4. a is inversely proportional to b . $a = 1.5$ when $b = 2$
 - a. Express a in terms of b
 - b. Calculate the value of a when $b = 1$

(5 Marks)