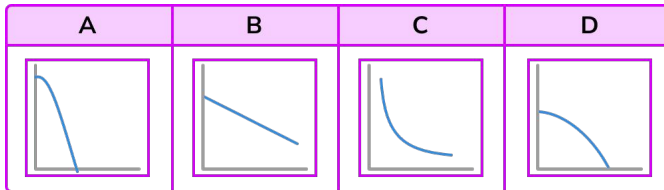# GCSE Exam Questions

Inverse Proportion | Ratio & Proportion

GCSE Exam Questions: Inverse Proportion

1) Here are four graphs.

State which graph represents inverse proportionality.

(1 mark)

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2) It takes 4 painters 9 days to complete a job.

How long would it take 6 painters to complete the same job?

------------------------- days

(2 marks)

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3) y is inversely proportional to x. y is given by the formula $y = \dfrac{4.8}{x}$.

Work out the value of y when $x = 4$.

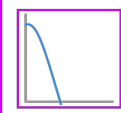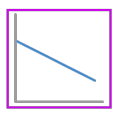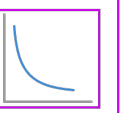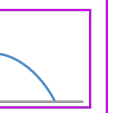-------------------------------

(2 marks)

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4) **(a)** 6 machines take 5 days to produce 100 items.

Work out how long it would take 10 machines to produce 100 items.

------------------------- days

(2 marks)

(b) Work out how long it would take 15 machines to produce 700 items.

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(2)

(4 marks)

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1

GCSE Exam Questions: Inverse Proportion Answers

	Question	Answer	Marks
1)	Here are four graphs. State which graph represents inverse proportionality.	C	**(1)**
2)	It takes 4 painters 9 days to complete a job. How long would it take 6 painters to complete the same job?	$4 \times 9 \div 6$ 6 *days*	**(1)** **(1)**
3)	y is inversely proportional to x. y is given by the formula $y = \dfrac{4.8}{x}$. Work out the value of y when $x = 4$	$\dfrac{4.8}{4}$ 1.2	**(1)** **(1)**
4) (a)	6 machines take 5 days to produce 100 items. Work out how long it would take 10 machines to produce 100 items	**(a)** $6 \times 5 \div 10$ 3 days	**(1)** **(1)**
(b)	Work out how long it would take 15 machines to produce 700 items.	**(b)** $6 \times 5 \times 7 \div 8$ 14 days	**(1)** **(1)**

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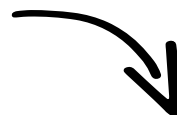
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