



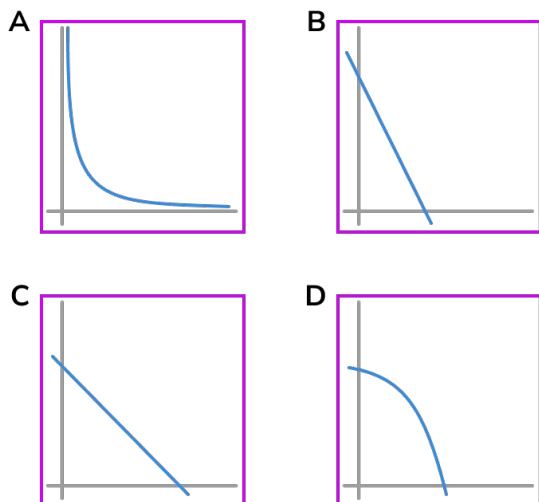
THIRD SPACE
LEARNING

GCSE Exam Questions

Directly Proportional Graphs /
Inversely Proportional | Ratio &
Proportion

GCSE Exam Questions: Directly Proportional Graphs / Inversely Proportional

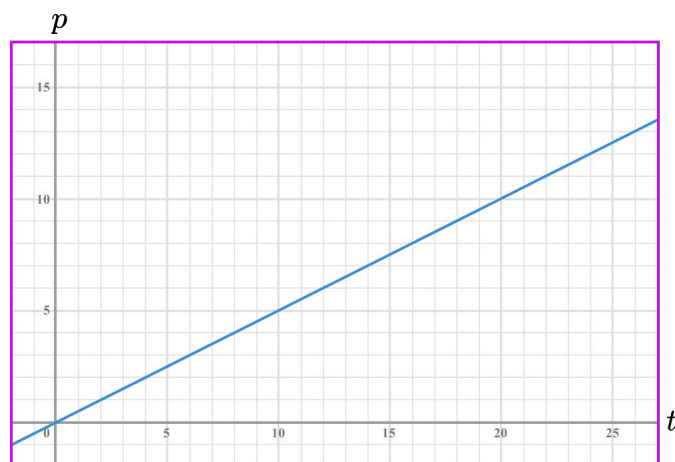
1) Here are 4 graphs.



Write down which graph shows inverse proportionality.

(1 mark)

2) p is directly proportional to t

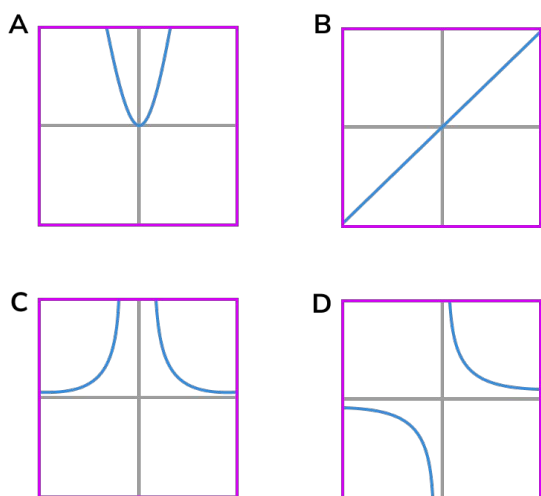


Use the graph to find the value of p when $t = 18$

(2 marks)

GCSE Exam Questions: Directly Proportional Graphs / Inversely Proportional

3) Here are 4 graphs.

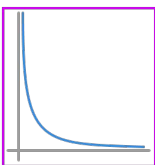
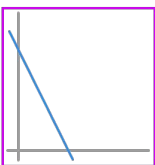
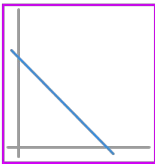
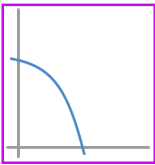
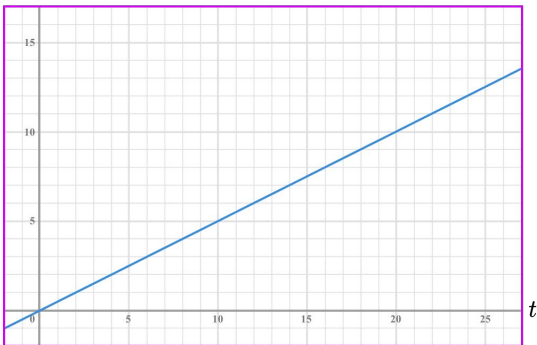
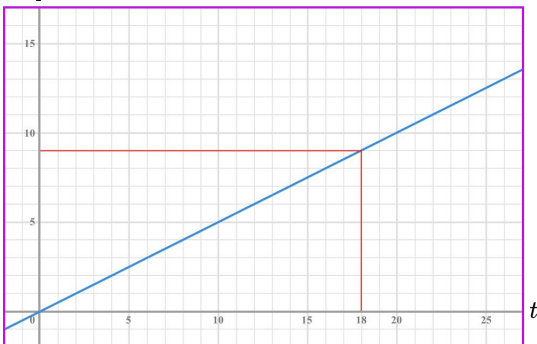


Match each statement below with one of the four graphs.

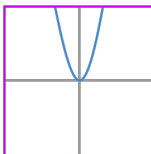
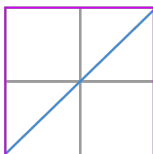
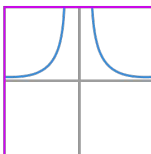
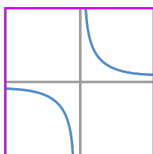
Proportionality relationship	Graph
y is directly proportional to x	
y is inversely proportional to x	
y is directly proportional to x^2	
y is inversely proportional to x^2	

(2)

GCSE Exam Questions: Directly Proportional Graphs / Inversely Proportional Answers

	Question	Answer	Marks
1)	<p>Here are 4 graphs.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div> <p>Write down which graph shows inverse proportionality.</p>	A	(1)
2)	<p>p is directly proportional to t</p>  <p>Use the graph to find the value of p when $t = 18$</p>	 <p>For using the graph $p = 9$</p>	(1) (1)

GCSE Exam Questions: Directly Proportional Graphs / Inversely Proportional Answers

	Question	Answer	Marks										
3)	Here are 4 graphs. <div><div>A</div><div>B</div><div>C</div><div>D</div></div> Match each statement below with one of the four graphs.	<table><tr><th>Proportionality relationship</th><th>Graph</th></tr><tr><td>y is directly proportional to x</td><td>B</td></tr><tr><td>y is inversely proportional to x</td><td>D</td></tr><tr><td>y is directly proportional to x^2</td><td>A</td></tr><tr><td>y is inversely proportional to x^2</td><td>C</td></tr></table> At least 2 correct All 4 correct	Proportionality relationship	Graph	y is directly proportional to x	B	y is inversely proportional to x	D	y is directly proportional to x^2	A	y is inversely proportional to x^2	C	<div>(1)</div> <div>(1)</div>
	Proportionality relationship	Graph											
	y is directly proportional to x	B											
	y is inversely proportional to x	D											
	y is directly proportional to x^2	A											
y is inversely proportional to x^2	C												

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

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