
Direct and Inverse Proportion

Topic Test 3 (20 minutes)

1 g is directly proportional to h

When $g = 27$, $h = 3$

Work out g when $h = 9$

[3 marks]

Answer _____

2 b is inversely proportional to a

When $b = 2.5$, $a = 8$

2 (a) Write an equation for b in terms of a

[3 marks]

Answer _____

2 (b) Find the value of b when a is 10

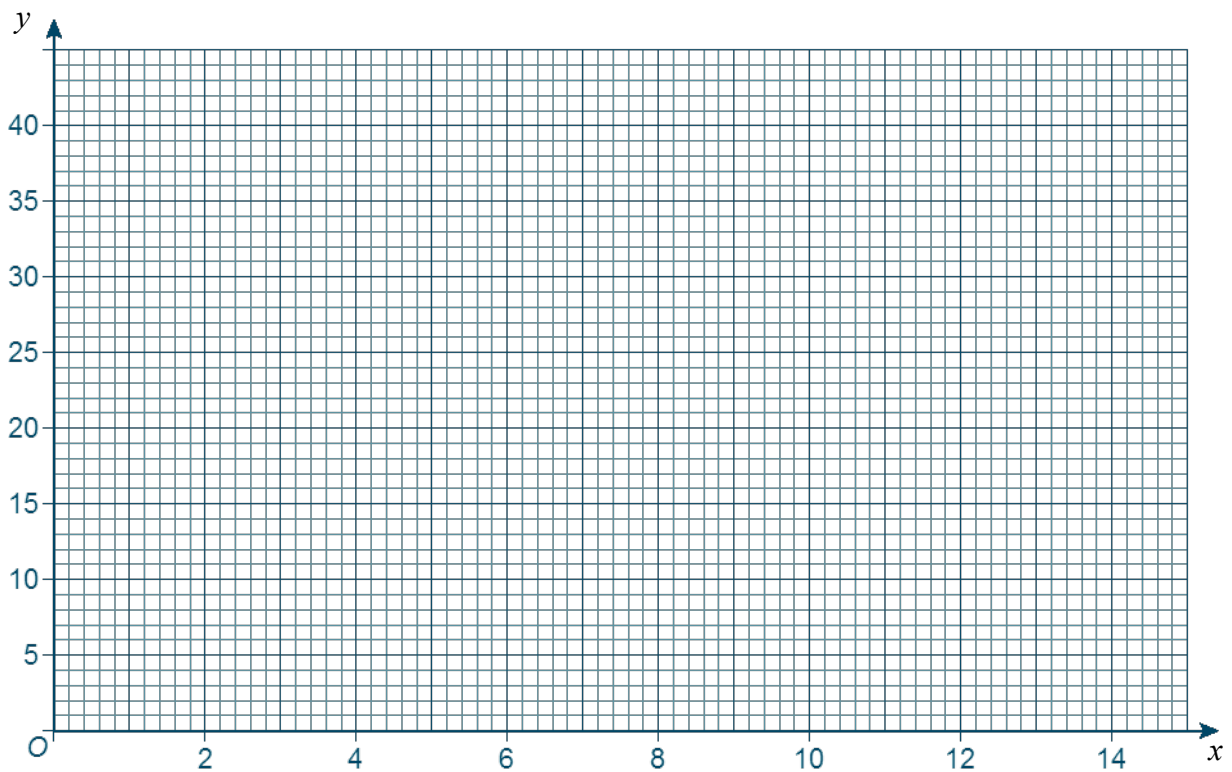
[1 mark]

Answer _____

3 y is directly proportional to x
When $y = 8$, $x = 2$

3 (a) Draw a graph that can be used to work out y if you have been given x

[2 marks]



3 (b) Use your graph to work out the value of y when $x = 6$

[1 mark]

Answer _____

4 The distance that a moped can travel in km (d) is directly proportional to the number of litres of petrol in its tank (p).

The moped can do 150 km with 5 litres of petrol.

4 (a) Find an equation connecting d and p

[3 marks]

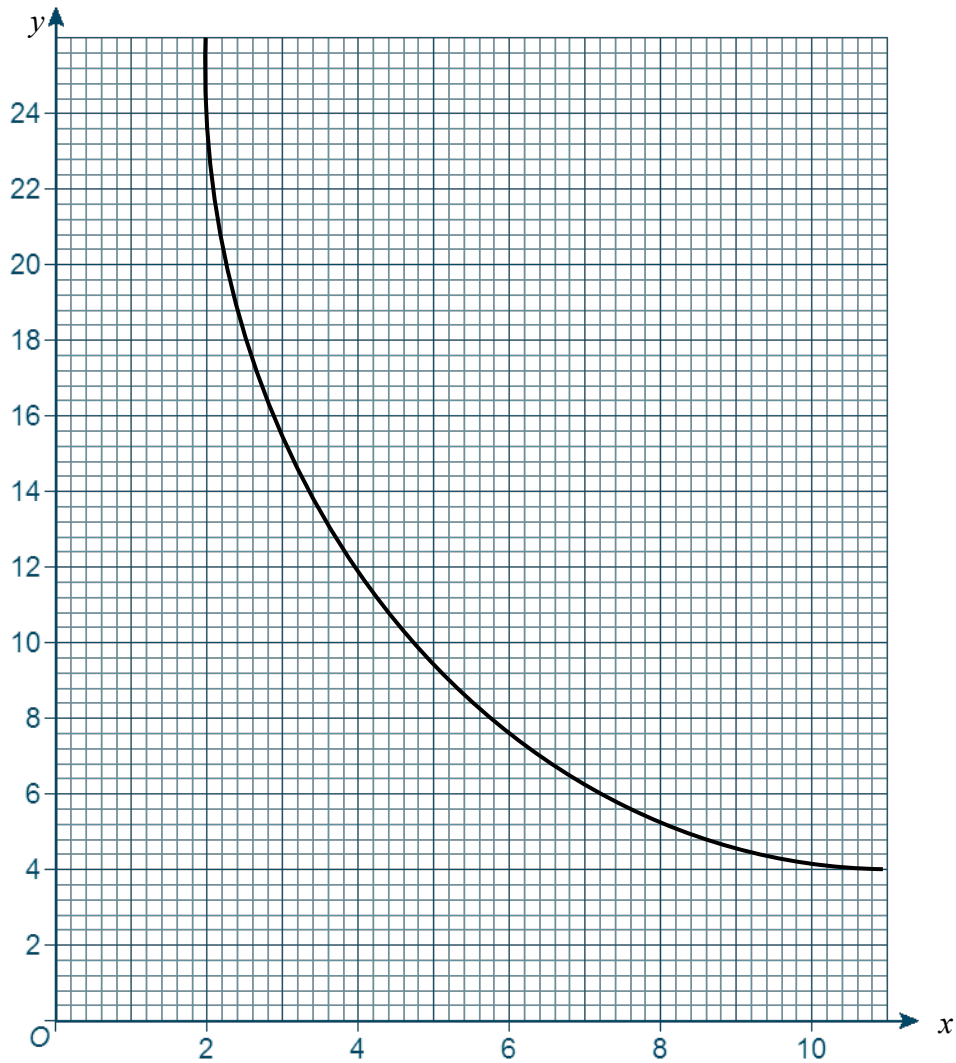
Answer _____

4 (b) For the moped to travel 120 km, how many litres of petrol are needed?

[1 mark]

Answer _____

- 5 The graph shows that y is inversely proportional to x



Use the graph to estimate the value of y when $x = 5$

[1 mark]

Answer _____

END OF QUESTIONS