



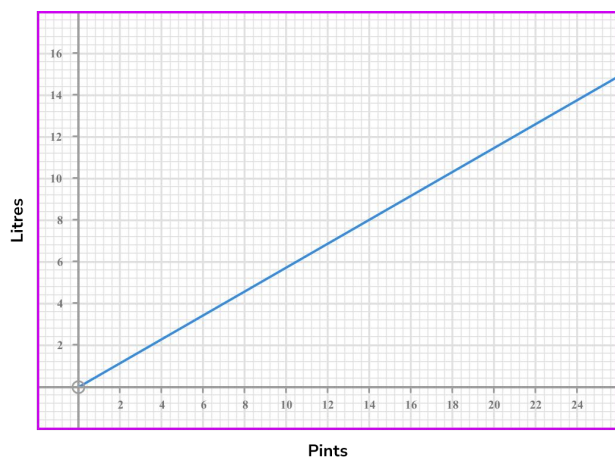
THIRD SPACE
LEARNING

GCSE Exam Questions

Conversion Graphs | Ratio &
Proportion

GCSE Exam Questions: Conversion Graphs

- 1) The graph shows the conversion between pints and litres.



- (a) Use the graph to estimate the number of litres equivalent to 14 pints.

(1)

- (b) Use the graph to estimate the number of pints equivalent to 12 litres.

(1)

- (c) A bath can hold 70 litres of water. Estimate the number of pints equivalent to 70 litres.

(2)

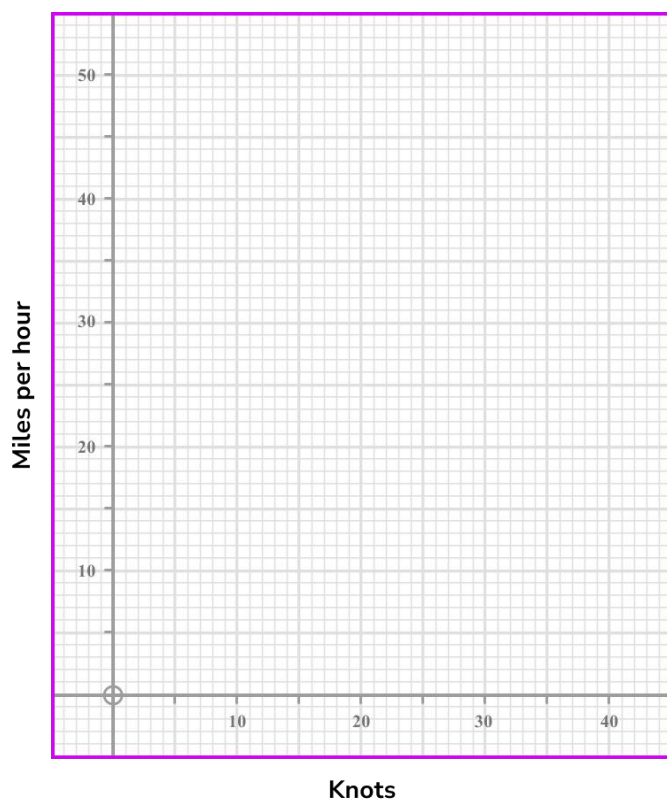
(4 marks)

GCSE Exam Questions: Conversion Graphs

- 2) A knot is the speed unit used in sailing.

One knot is equivalent to 1.15 miles per hour

- (a) Use the information above and the axes provided to draw a conversion graph for knots and miles per hour.



(2)

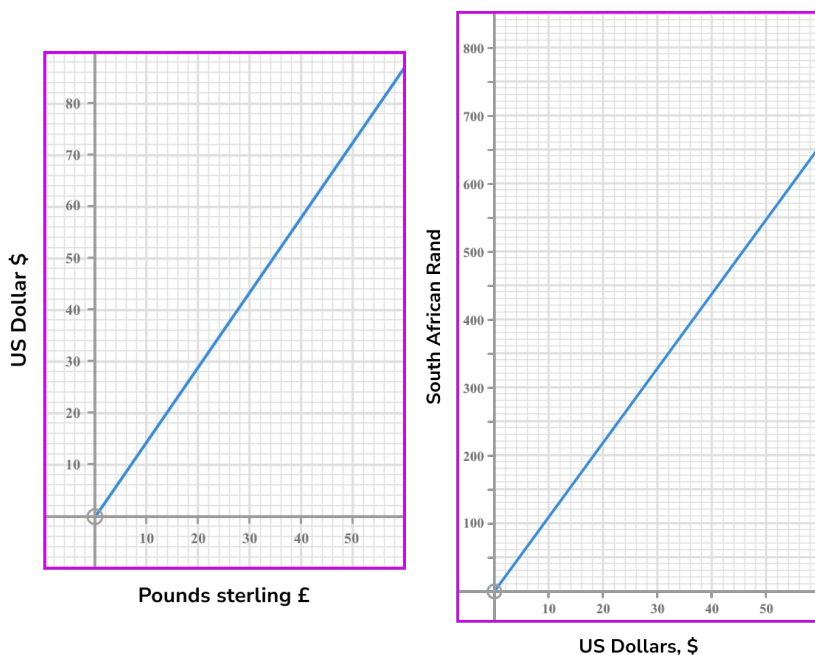
- (b) Use your line to convert 25 miles per hour to knots.
Give your answer to the nearest integer.

(1)

(3 marks)

GCSE Exam Questions: Conversion Graphs

- 3) The graphs show the conversion between Pound Sterling and US Dollars and US Dollars to South African Rand.



- (a) John wishes to buy a camera. He can buy it in the UK for £360 or order it from South Africa for 6000 Rand including postage. Is it cheaper to buy the camera in the UK or order it from South Africa?

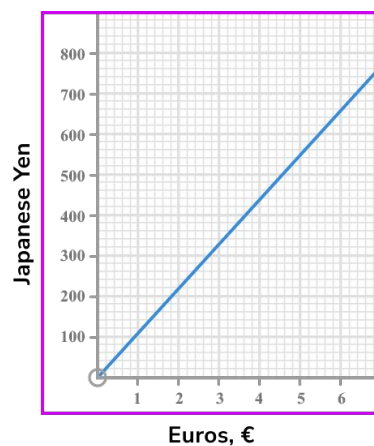
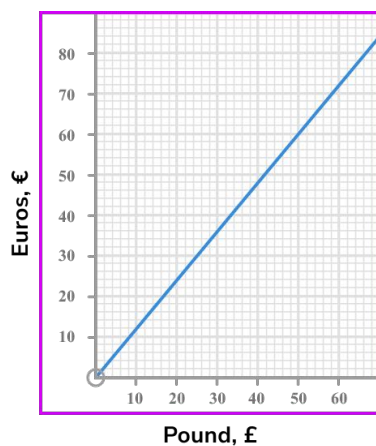
(3)

- (b) Convert 400 South Rand to Pound Sterling.

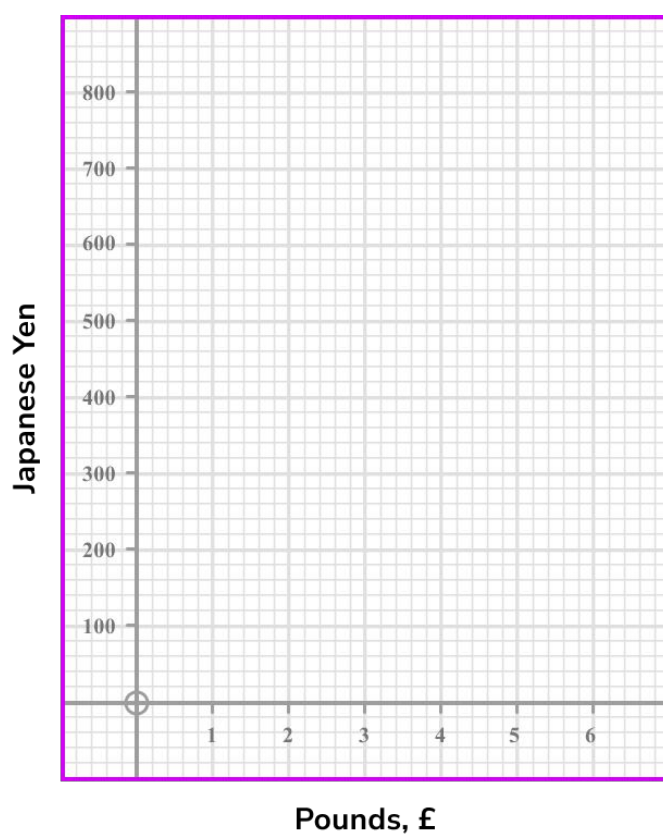
(2)
(5 marks)

GCSE Exam Questions: Conversion Graphs

- 4) The graphs show the conversion between pounds, £ and euros, €, and the conversion between euros, € and Japanese Yen, ¥.

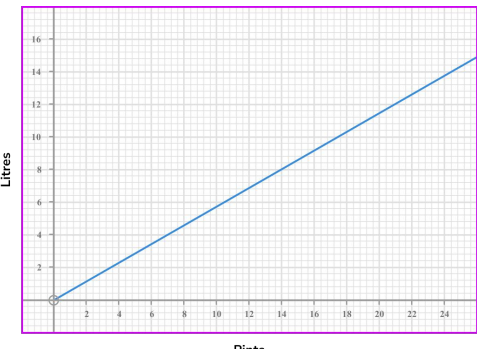
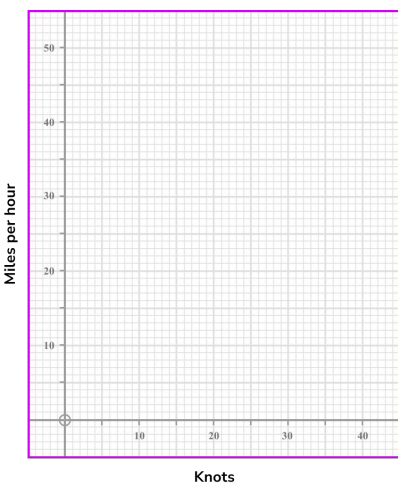
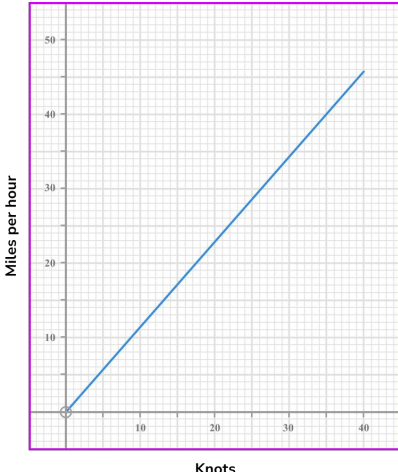


Use the information to draw a conversion graph for pounds, £ to Japanese Yen, ¥.

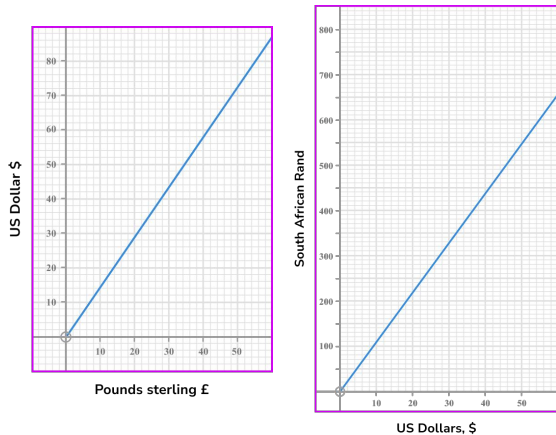


(4 marks)

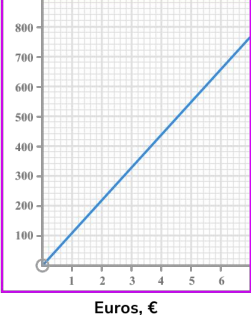
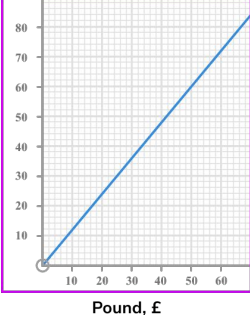
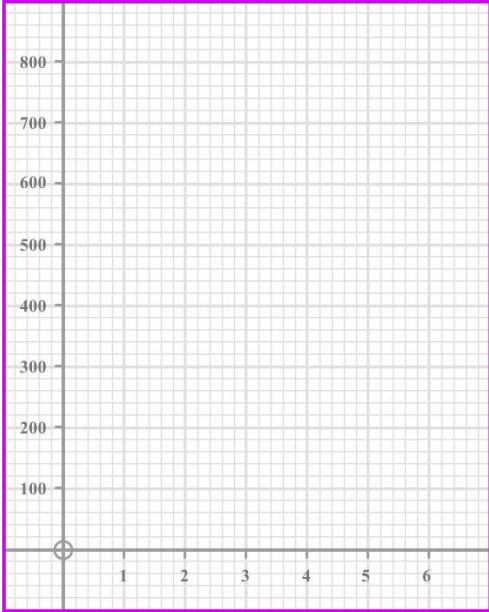
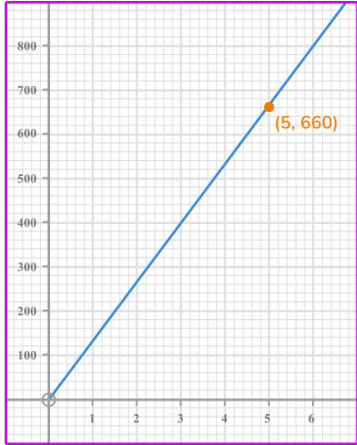
GCSE Exam Questions: Conversion Graphs Answers

	Question	Answer	Marks
1)	The graph shows the conversion between pints and litres. 		
(a)	Use the graph to estimate the number of litres equivalent to 14 pints.	(a) 8	(1)
(b)	Use the graph to estimate the number of pints equivalent to 12 litres.	(b) 21	(1)
(c)	A bath can hold 70 litres of water. Estimate the number of pints equivalent to 70 litres.	(c) Using an appropriate factor of 70 litres and converting correctly, eg 10 litres = 17.6 pints Answer between 120 and 125 inclusive	(1) (1)
2)	A knot is the speed unit used in sailing. One knot is equivalent to 1.15 miles per hour (a) Use the information above and the axes provided to draw a conversion graph for knots and miles per hour. 	(a)  A correct point plotted, eg (10,11.5) Correct line	(1) (1)
(b)	Use your line to convert 25 miles per hour to knots. Give your answer to the nearest integer.	(b) 22 or 23 knots	(1)

GCSE Exam Questions: Conversion Graphs Answers

	Question	Answer	Marks
3)	The graphs show the conversion between Pound Sterling and US Dollars and US Dollars to South African Rand. 		
(a)	John wishes to buy a camera. He can buy it in the UK for £360 or order it from South Africa for 6000 Rand including postage. Is it cheaper to buy the camera in the UK or order it from South Africa?	(a) Converts £360 to \$520 Converts 6000 Rand to \$500 or converts \$520 to 5700 Rand States that camera is cheaper if ordered from the UK	(1) (1) (1)
(b)	Convert 400 South Rand to Pound Sterling.	(b) Converts 400 Rand to \$35 - \$37 Converts their amount of \$ to £22-£25	(1) (1)

GCSE Exam Questions: Conversion Graphs Answers

	Question	Answer	Marks
4)	The graphs show the conversion between pounds, £ and euros, €, and the conversion between euros, € and Japanese Yen, ¥.  Use the information to draw a conversion graph for pounds, £ to Japanese Yen, ¥. 	 Finds a correct conversion for Pounds and Euros, eg £50 = €60 Finds a correct conversion for Euros and Yen, eg €6 = ¥600 Finds a correct conversion between Pounds and Yen , eg £5 = ¥660 Correct line	(1) (1) (1) (1)

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.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?



Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.