

Topics

Algebra – Can I solve a linear inequality?

1 ► 2014 JCOL Paper 1 – Question 12 (b)

Applied Arithmetic – Can I convert from one currency to another?

2 ► 2013 JCOL Paper 1 – Question 2 (a)

Number – Can I work with Scientific Notation?

3 ► 2012 JCOL Paper 1 – Question 2 (c)

Trigonometry – Can I use Pythagoras Theorem and the Trigonometric Ratios?

4 ► 2014 JCOL Sample Paper 2 – Question 13 (a)

Coordinate Geometry – Can I find the distance between 2 points?

5 ► 2012 JCOL Paper 2 – Question 5 (b)

www.mathspoints.ie for **worked solutions** to these questions.

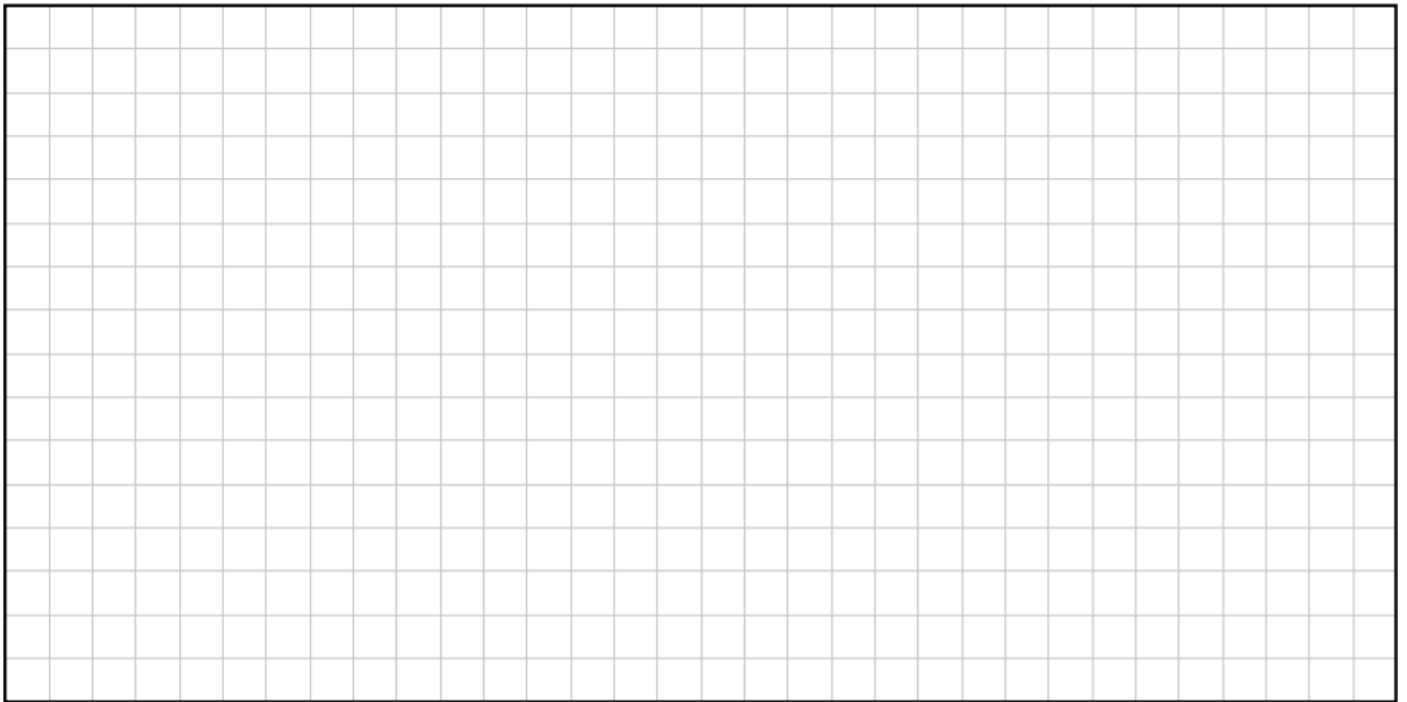
 [JCOL Resources by Topic](#)

 [JCOL Revision – 50 Common Questions](#)

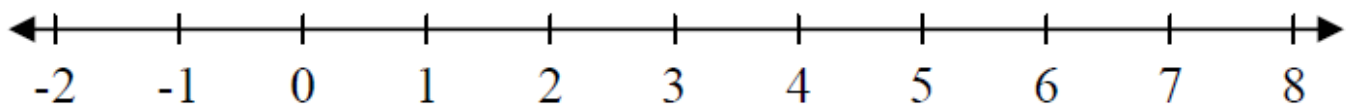
1 ► 2014 JCOL Paper 1 – Question 12 (b)

(i) Solve the inequality

$$-7 + 2x \leq 1, \text{ where } x \in \mathbb{Z}.$$



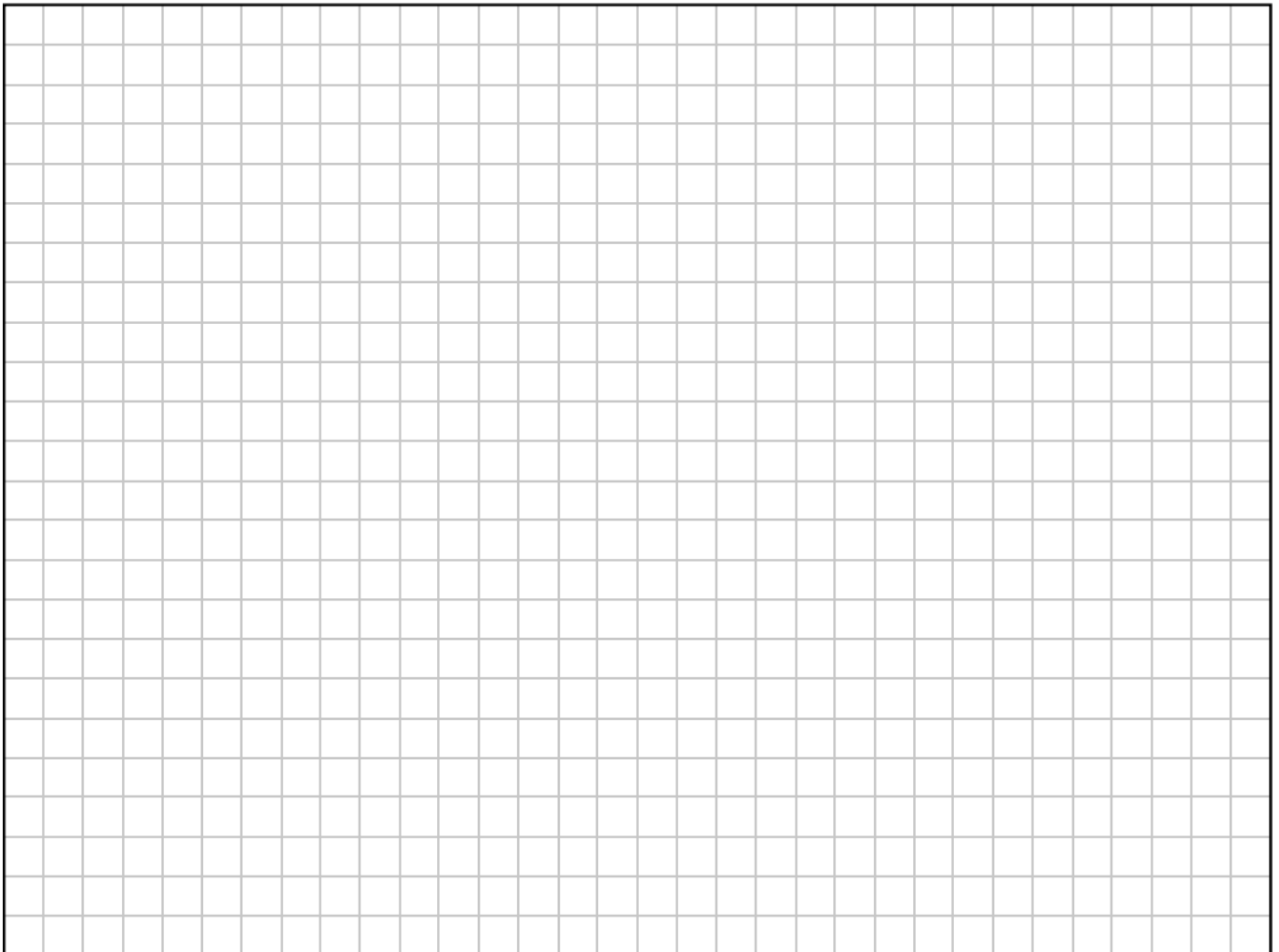
(ii) Graph your solution to (b)(i) on the number line given below.



2 ► 2013 JCOL Paper 1 – Question 2 (a)

A book online cost £28.00, plus a delivery charge of £5.00.

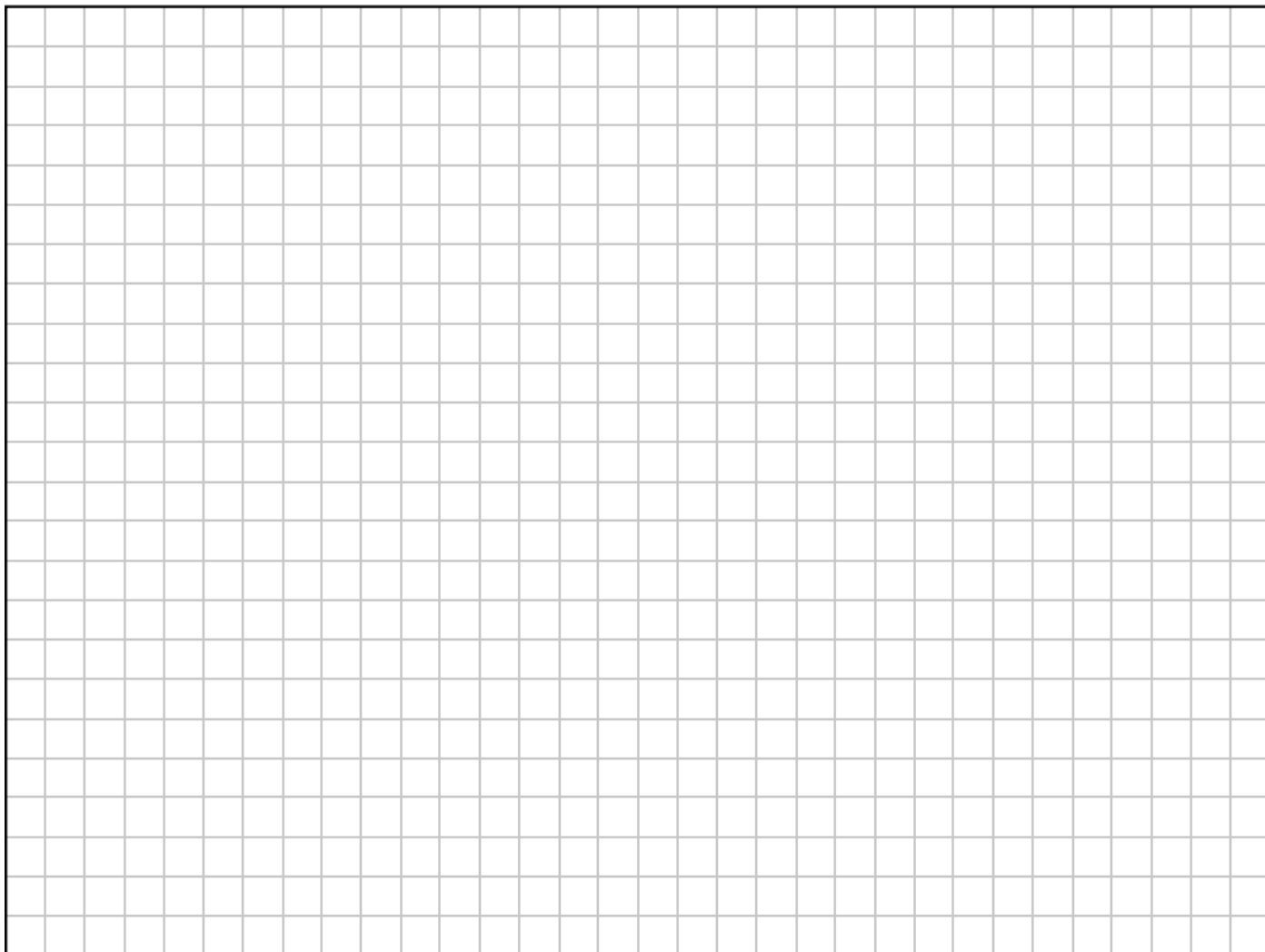
What is the total cost of the book in euro, if the exchange rate is £1 = €1.25?

A large grid for working out the solution, consisting of 20 columns and 20 rows of small squares.

3 ► 2012 JCOL Paper 1 – Question 2 (c)

Using a calculator, or otherwise, multiply $450\,000 \times 7.8$.

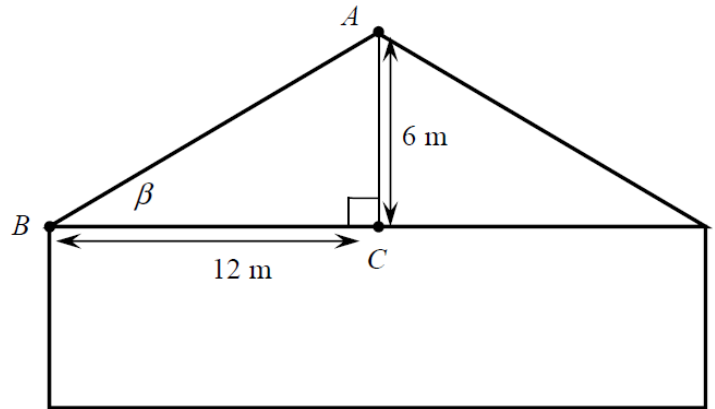
Then express your answer in the form $a \times 10^n$, where $1 \leq a < 10$ and $n \in \mathbb{N}$.



4 ► 2014 JCOL Sample Paper 2 – Question 13 (a)

Ella is building a house in Montreal.

- (i) Calculate the measure of the angle β . Give your answer correct to the nearest degree.



- (ii) Find the length of the roof from A to B. Give your answer correct to two decimal places.

5 ► 2012 JCOL Paper 2 – Question 5 (b)

R is the point $(-1, 2)$ and S is the point $(5, 6)$.

Find the length of $[RS]$.

