

Topics

Algebra – Can I solve a quadratic equation using the formula?

Last Needed - 2023

1 ► 2008 LCOL Paper 1 – Question 2 (b)

Applied Arithmetic – Can I calculate compound interest?

Last Needed - 2023

2 ► 2011 LCOL Paper 1 – Question 2

Number – Can I work with scientific notation?

Last Needed - 2022

3 ► 2007 JCHL Paper 1 – Question 1 (b) (i)

Trigonometry – Can I use the sine rule to find the missing side of a triangle?

Last Needed - 2023

4 ► 2011 LCOL Paper 2 – Question 5 (a)

Coordinate Geometry – Can I find the equation of a line given 2 points on the line?

Last Needed - 2023

5 ► 2009 LCOL Paper 2 – Question 2 (a)

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

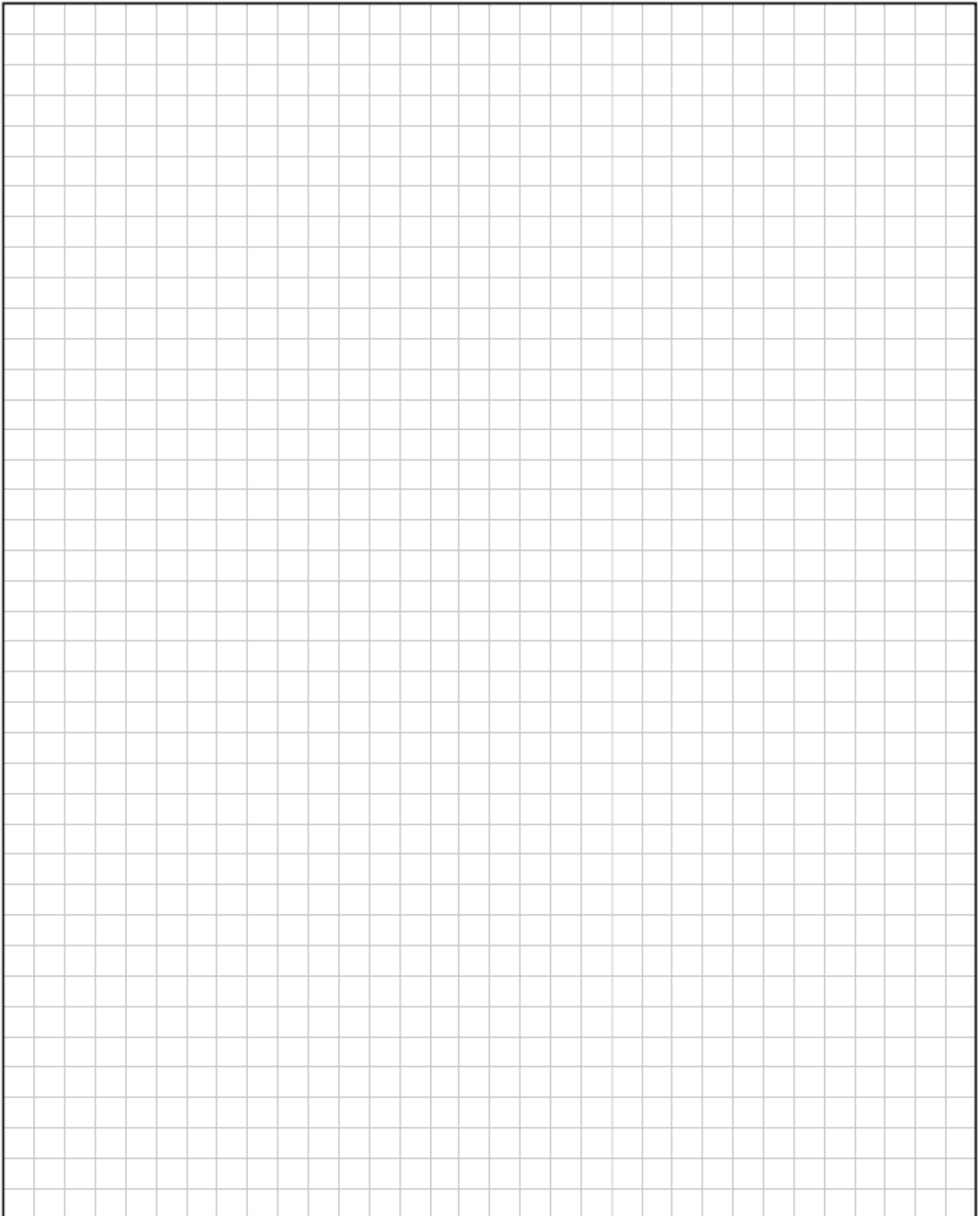
[📁 LCOL Resources by Topic](#)

[📁 LCOL Revision – 50 Common Questions](#)

1 ► 2008 LCOL Paper 1 – Question 2 (b)

Solve $x^2 - 4x + 1 = 0$.

Write your solutions in the form $a \pm \sqrt{b}$, where $a, b \in \mathbf{N}$.



2 ► 2011 LCOL Paper 1 – Question 2

- (a) A certain deposit account will earn 3% interest in the first year and 6% interest in the second year. The interest is added to the account at the end of each year. If a person invests €20 000 in this account, how much will they have in the account at the end of the two years?

- (b) Show that, to the nearest euro, the same amount of interest is earned by investing the money for two years in an account that pays compound interest at 4.49% (AER).

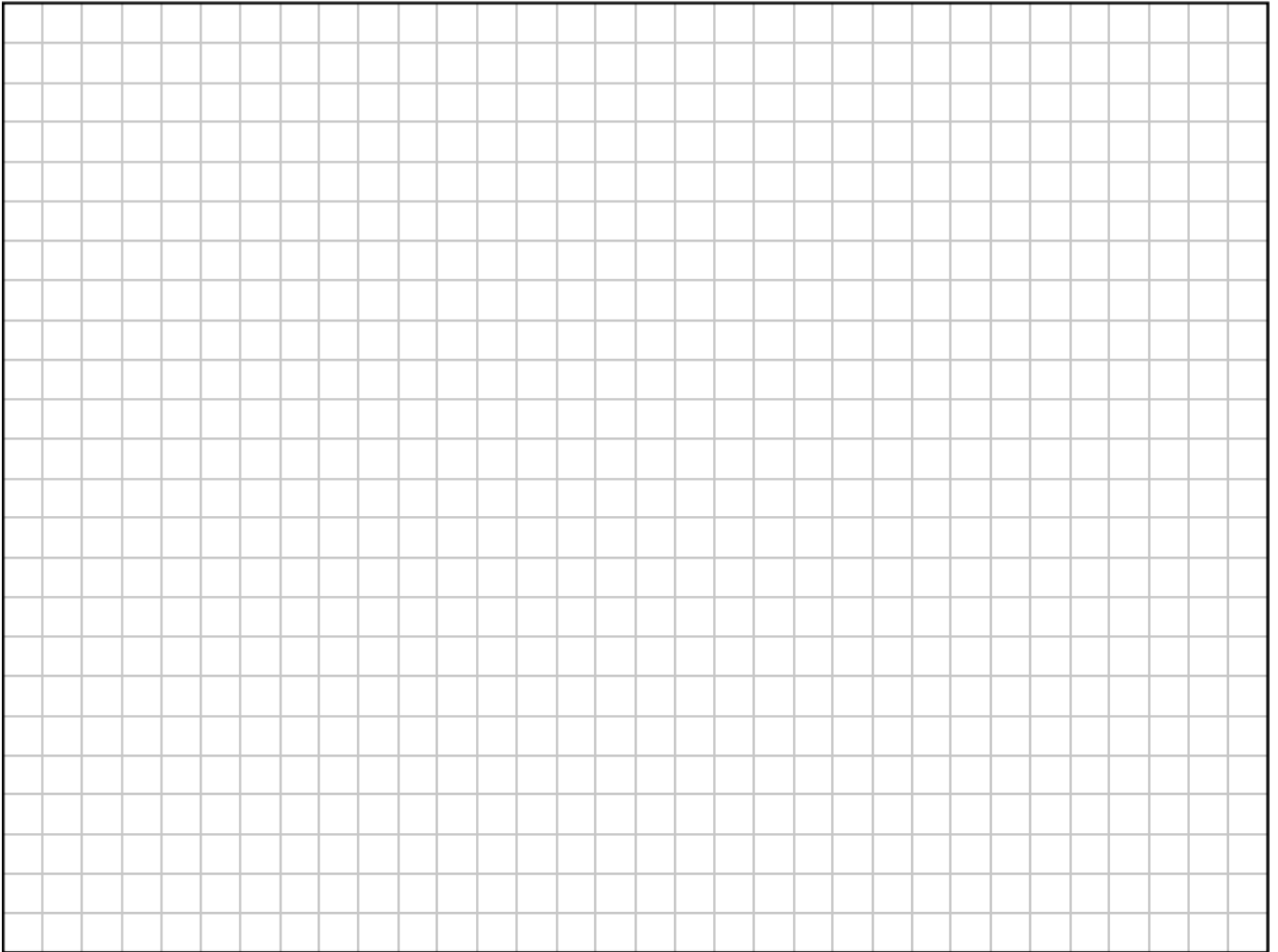
3 ► 2007 JCHL Paper 1 – Question 1 (b) (i)

In 1981 the population of Peru was approximately 1.8×10^7 .

By 1988 the population had increased by 2.5 million.

What would be the approximate population of Peru in 1988?

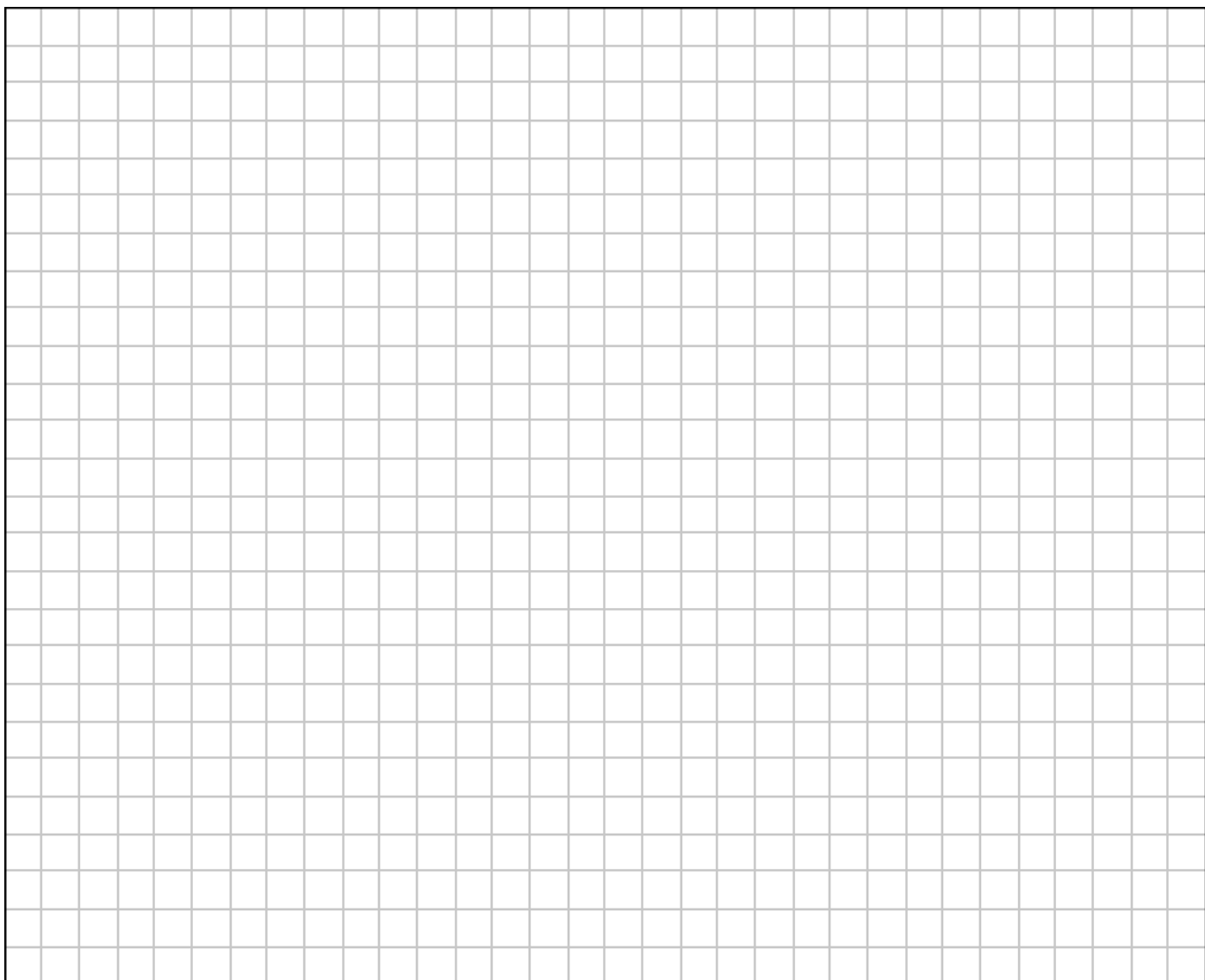
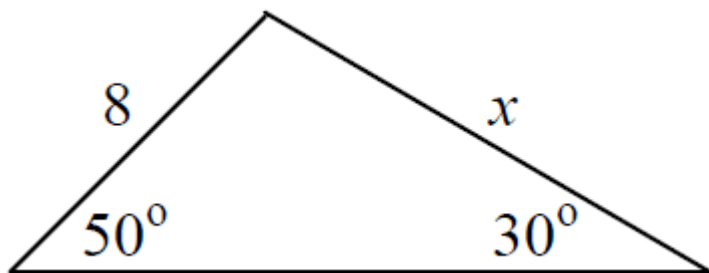
Express your answer in the form $a \times 10^n$, where $n \in \mathbf{Z}$ and $1 \leq a < 10$.

A large rectangular grid with 20 columns and 25 rows, intended for the student to write their answer.

4 ► 2011 LCOL Paper 2 – Question 5 (a)

Use the sine rule to calculate the value of x in the diagram.

Give your answer correct to the nearest integer.



5 ► 2009 LCOL Paper 2 – Question 2 (a)

$a(-2, 1)$ and $b(4, 5)$ are two points.

Find the equation of ab .

