JCOL Basic Skills – Pack 6

Topics

Algebra – Can I solve simultaneous equations?

1 ▶ 2016 JCOL Paper 1 – Question 14 (b)   ☐

Applied Arithmetic (Financial) – Can I calculate compound interest?

2 ▶ 2004 JCOL Paper 1 – Question 3 (b)   ☐

Coordinate Geometry – Can I find the equation of a line?

3 ▶ 2012 JCOL Paper 2 – Question 5 (c)   ☐

Patterns – Can I complete linear and quadratic sequences?

4 ▶ 2018 JCOL Paper 1 – Question 3   ☐

Area, Perimeter and Volume – Can I find the area of a triangle?

5 ▶ 2007 JCOL Paper 2 – Question 2 (a)   ☐

www.mathspoints.ie for **worked solutions** to these questions.
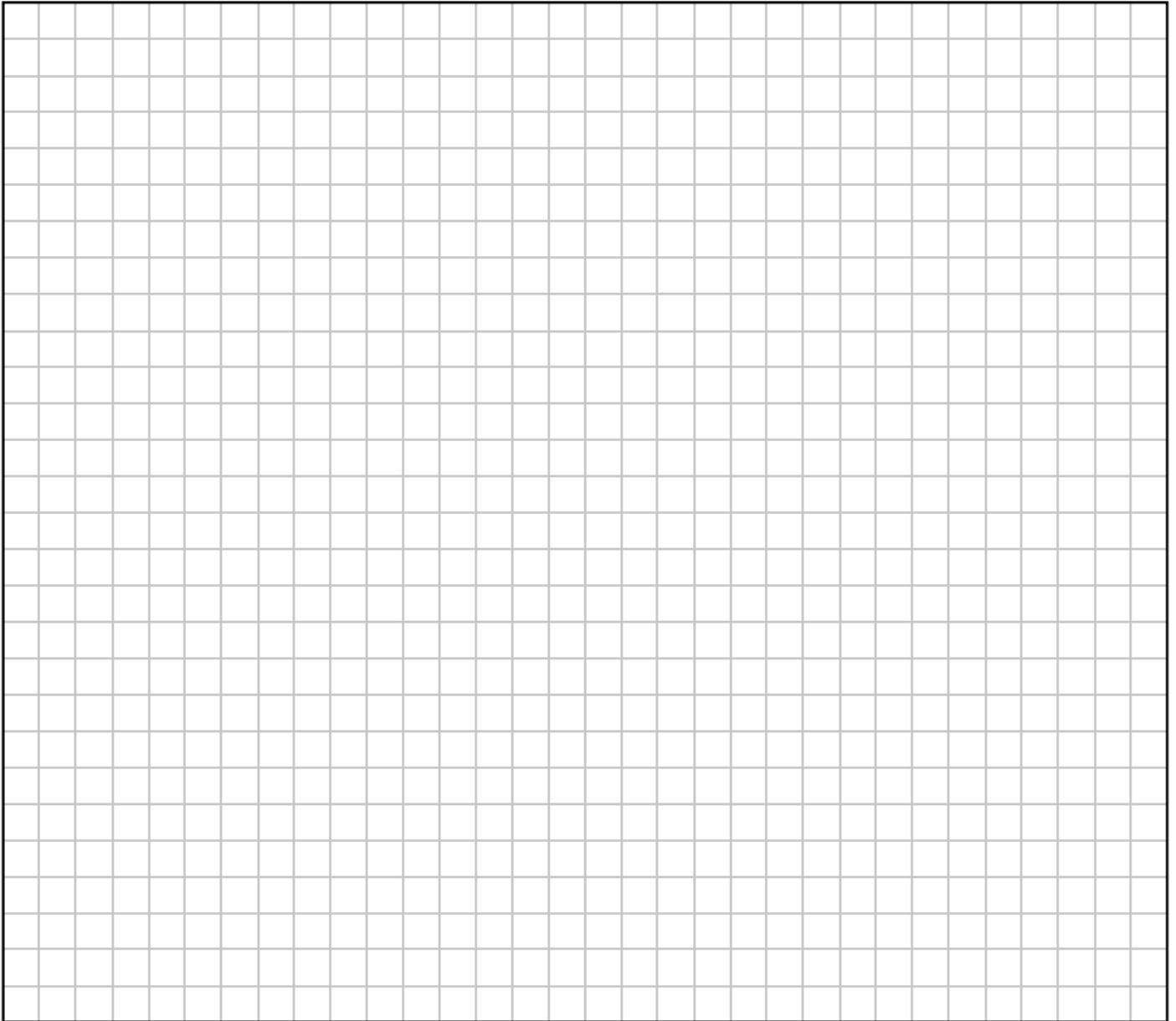
🗀 JCOL Resources by Topic

🗀 JCOL Revision – 50 Common Questions

1 ▶ 2016 JCOL Paper 1 – Question 14 (b)

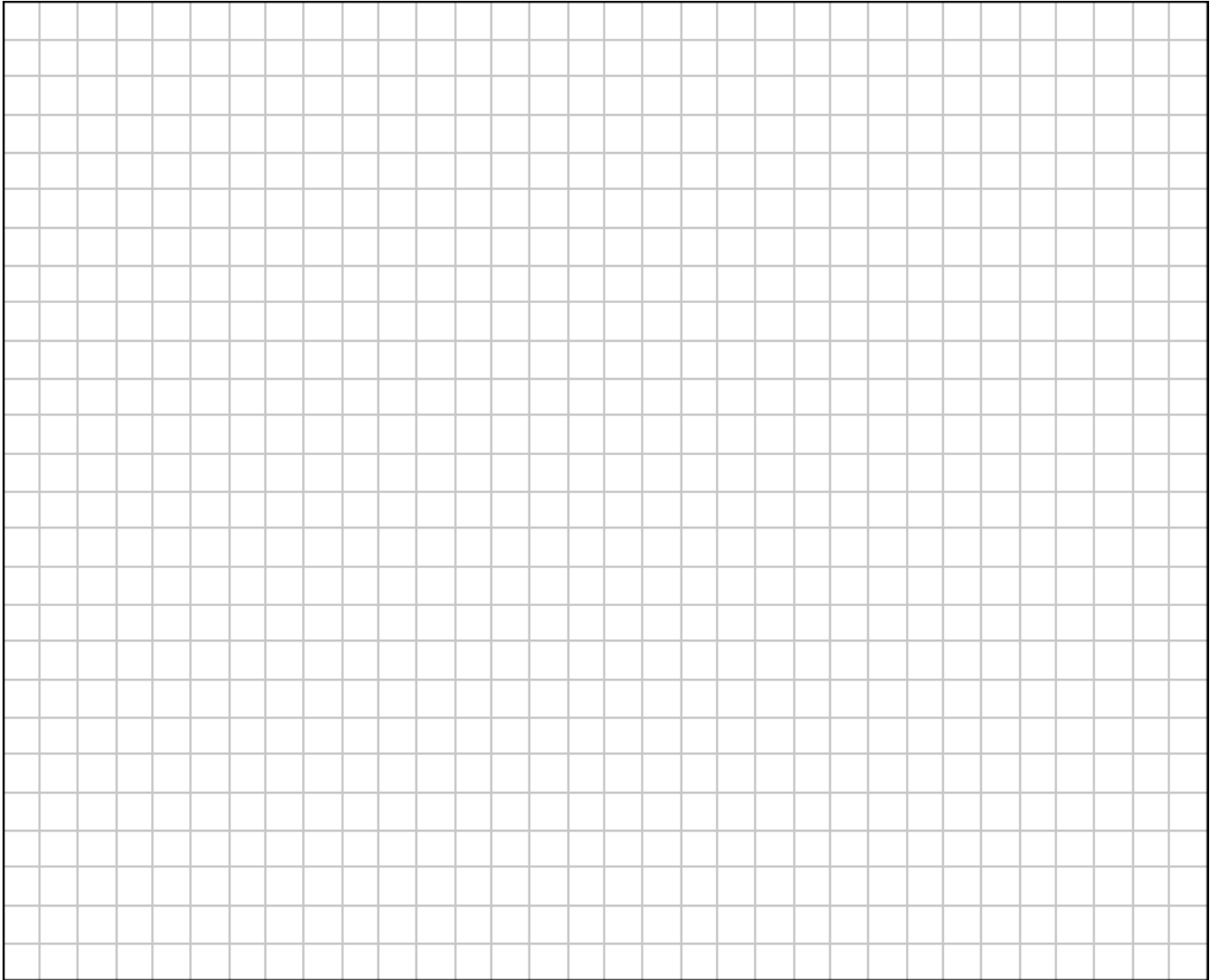Solve the following simultaneous equations.

$$3x + 2y = 39$$

$$x + 2y = 25$$

2 ▶ 2004 JCOL Paper 1 – Question 3 (b)
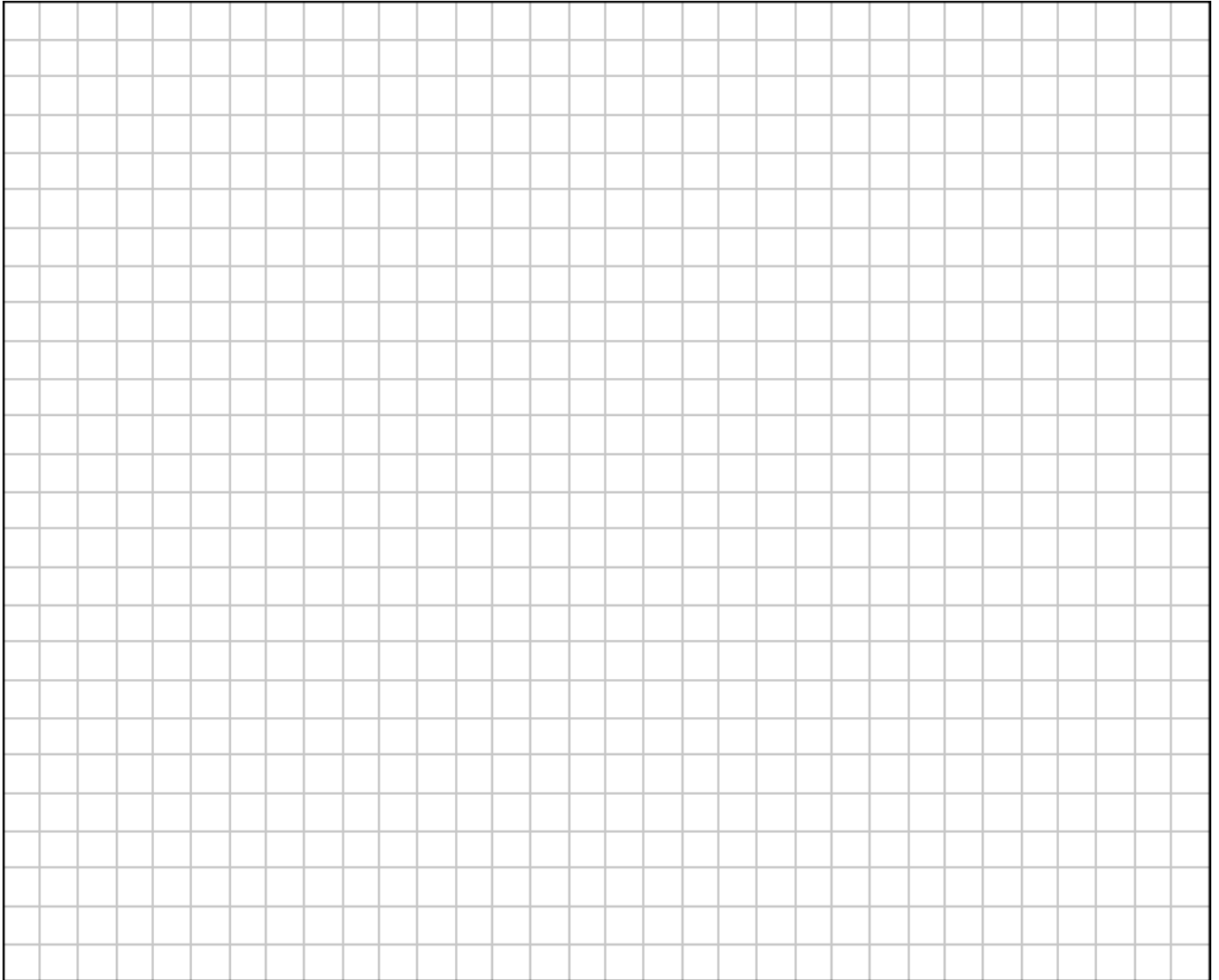
VAT at 15% is added to a bill of €84.60.

Calculate the total bill.

3 ▶ 2012 JCOL Paper 2 – Question 5 (c)

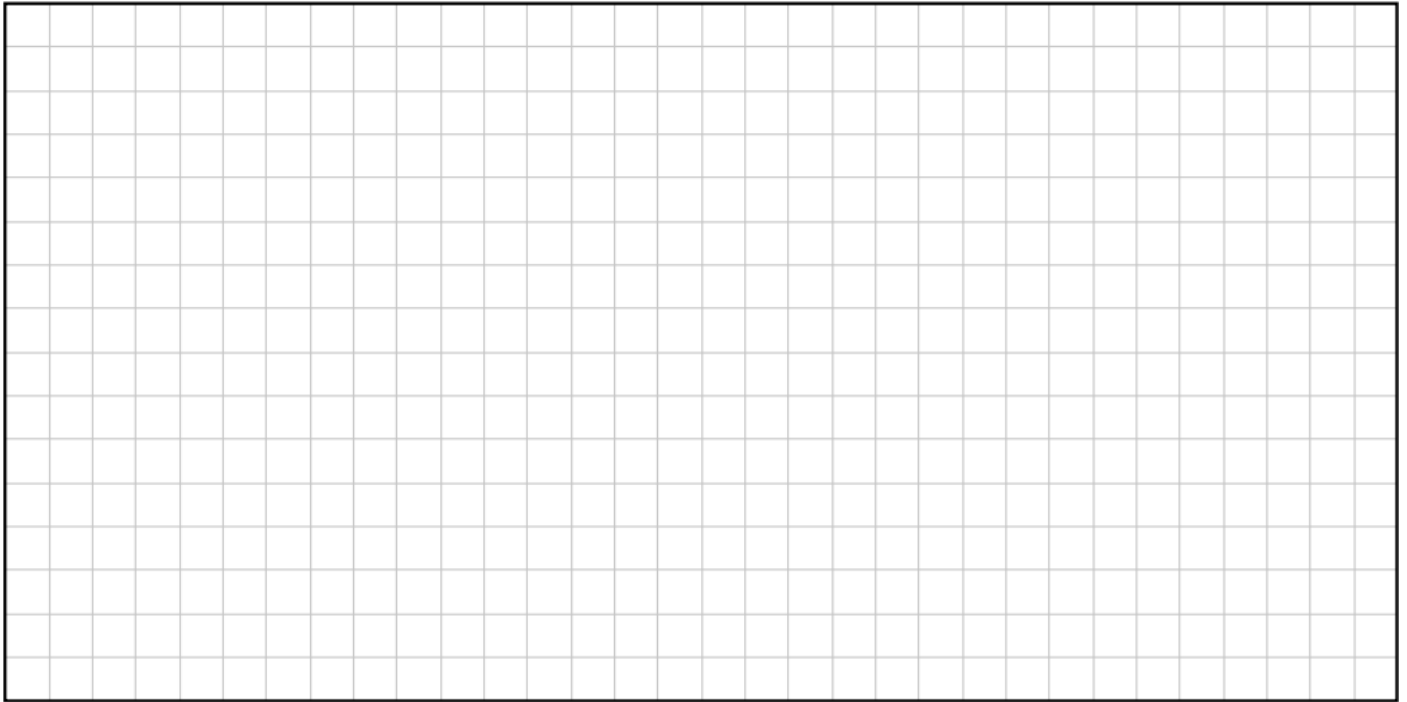The line l contains the point $(2,\ 3)$. The slope of l is -1.

Find the equation of the line l.
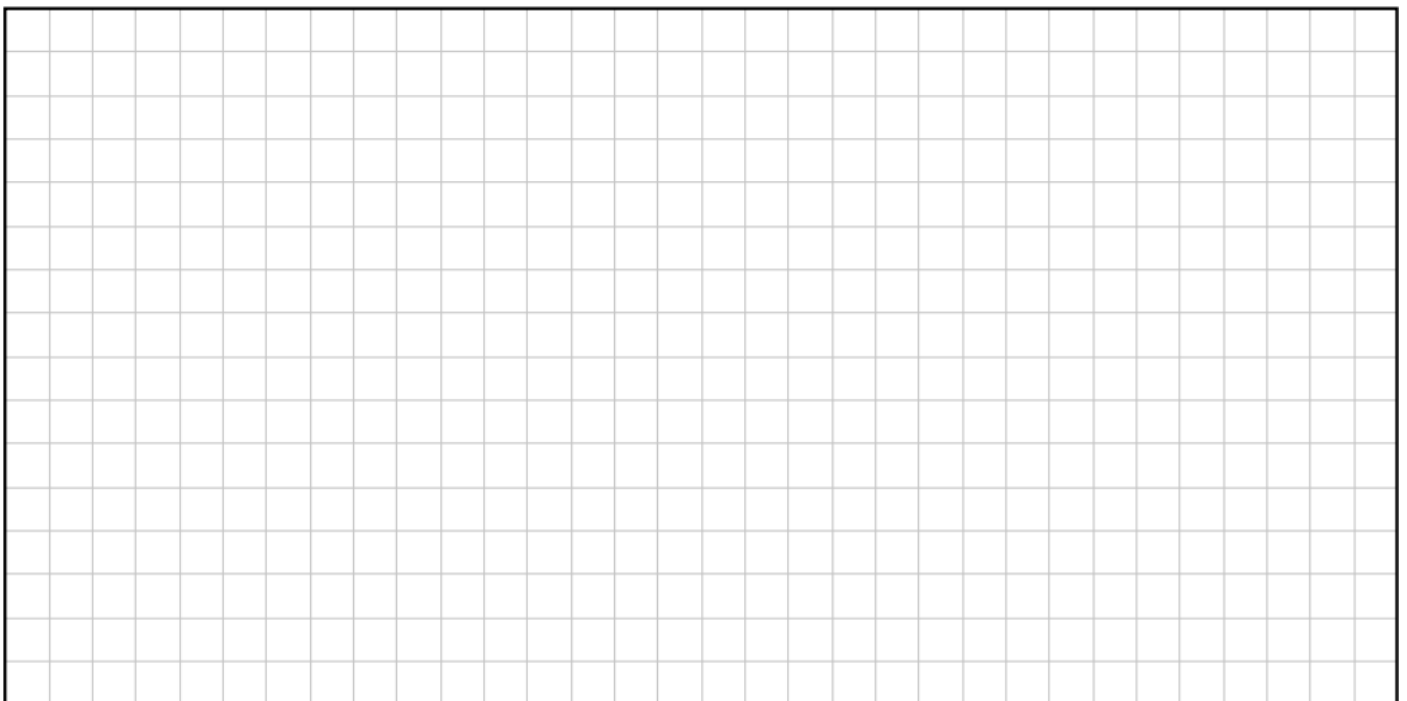
4 ▶ 2018 JCOL Paper 1 – Question 3

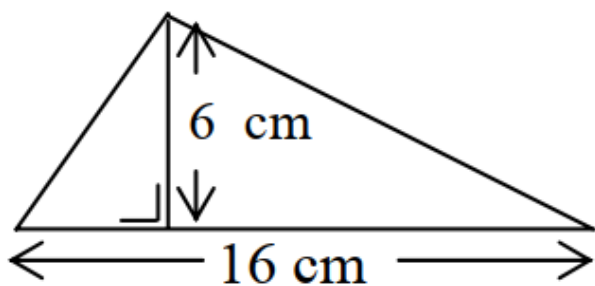(a)   Fill in the boxes to make this a **linear** pattern.

| | , | 10 | , | 14 | , | | , | | .

(b)   Fill in the boxes to make this a **quadratic** pattern.

| 2 | , | 4 | , | 7 | , | | , | | .

5 ▶ 2007 JCOL Paper 2 – Question 2 (a)

A triangle has measurements as shown in the diagram.

Find, in cm^2, the area of the triangle.