

Topics

Applied Arithmetic – Can I calculate the time taken, given the distance and speed?

1 ► 2002 JCHL Paper 1 – Question 1 (ii)

Coordinate Geometry – Can I show that a point is on a line?

2 ► 2002 JCHL Paper 2 – Question 1 (ix)

Algebra – Can I expand brackets to form a quadratic expression?

3 ► 2019 JCOL Paper 1 – Question 7 (a)

Statistics – Can I calculate the median of a set of data?

4 ► 2019 JCOL Paper 2 – Question 7 (c)

Geometry – Can I identify similar triangles?

5 ► 2017 JCOL Paper 2 – Question 8 (c)

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

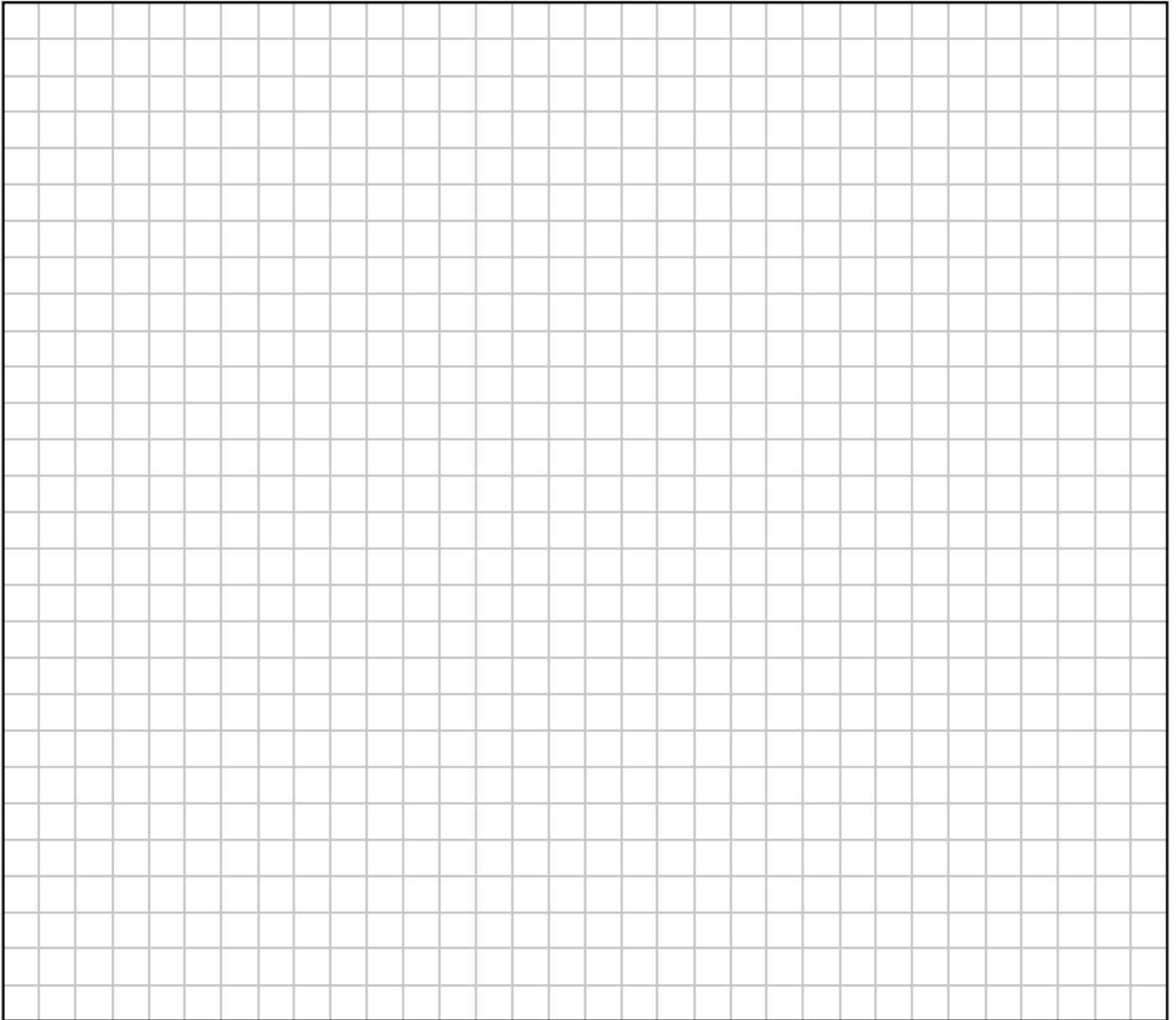
 [JCOL Resources by Topic](#)

 [JCOL Revision – 50 Common Questions](#)

1 ► 2002 JCHL Paper 1 – Question 1 (ii)

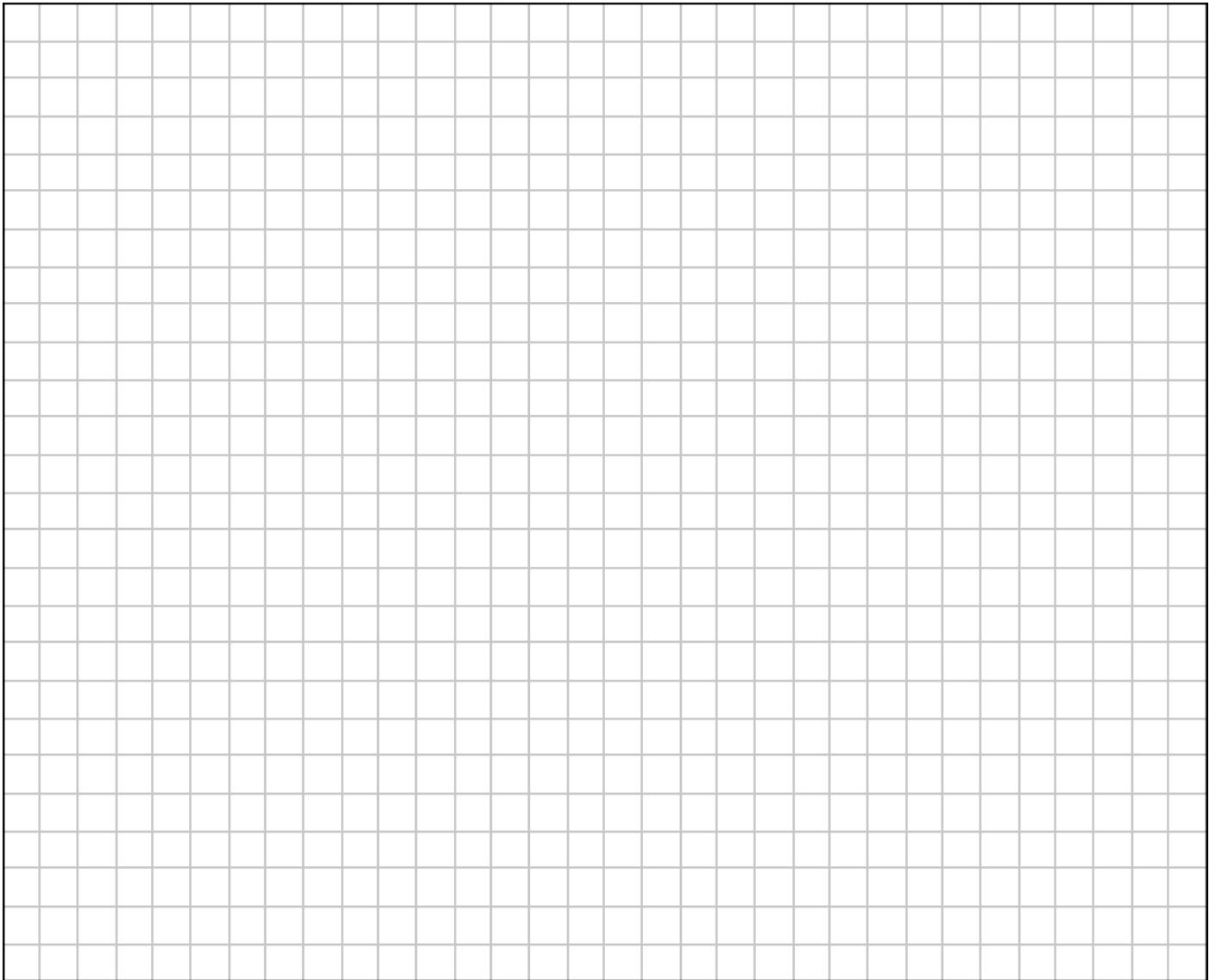
A person travelled at an average speed of 72 km/hr for 4 hours and 20 minutes.

How far did the person travel?

A large grid of graph paper, consisting of 20 columns and 20 rows of small squares, intended for the student to show their working out.

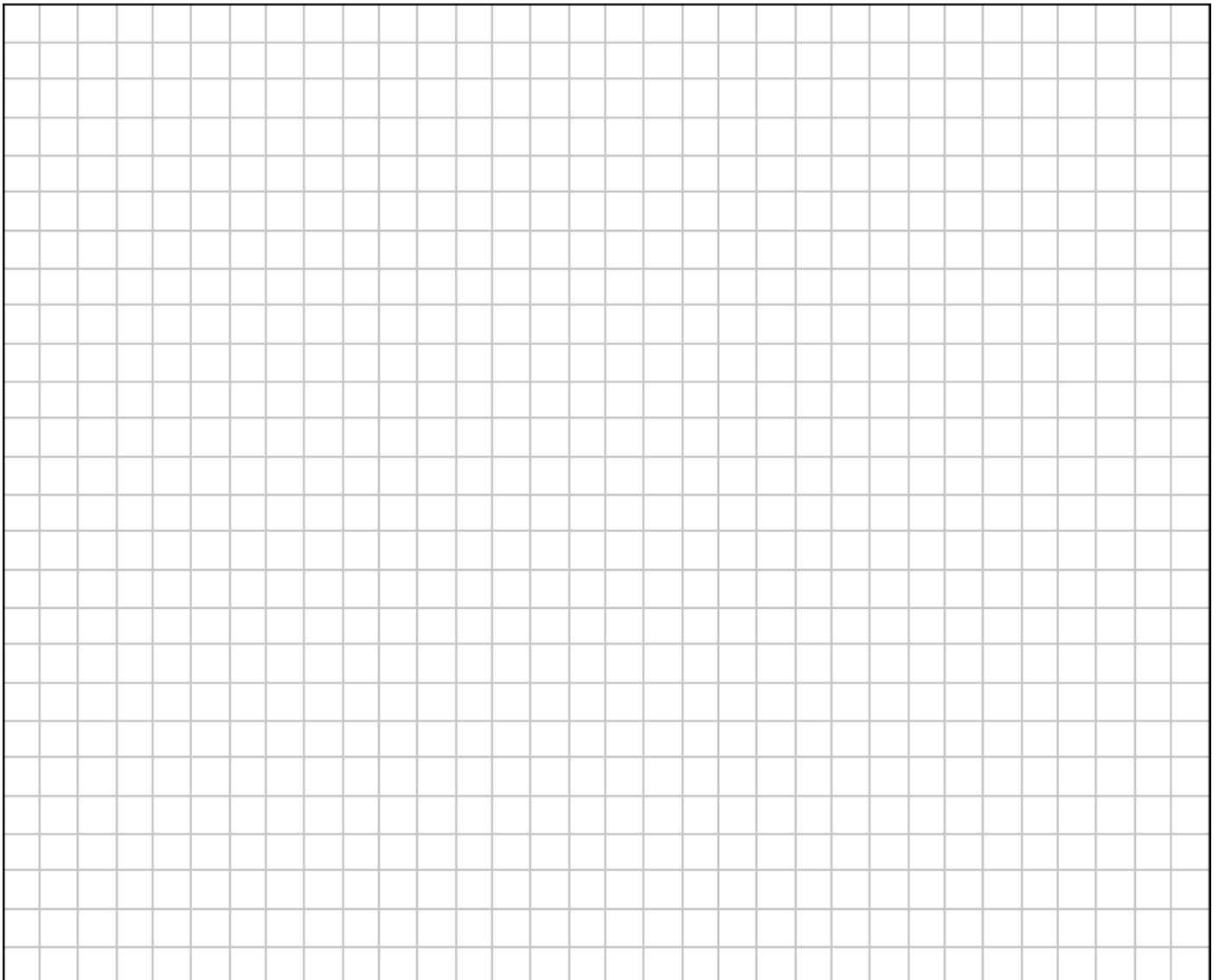
2 ► 2002 JCHL Paper 2 – Question 1 (ix)

Verify that the point $(1, -1)$ is on the line $3x + 2y - 1 = 0$.



3 ► 2019 JCOL Paper 1 – Question 7 (a)

Multiply out and simplify $(x + 3)(x - 2)$.

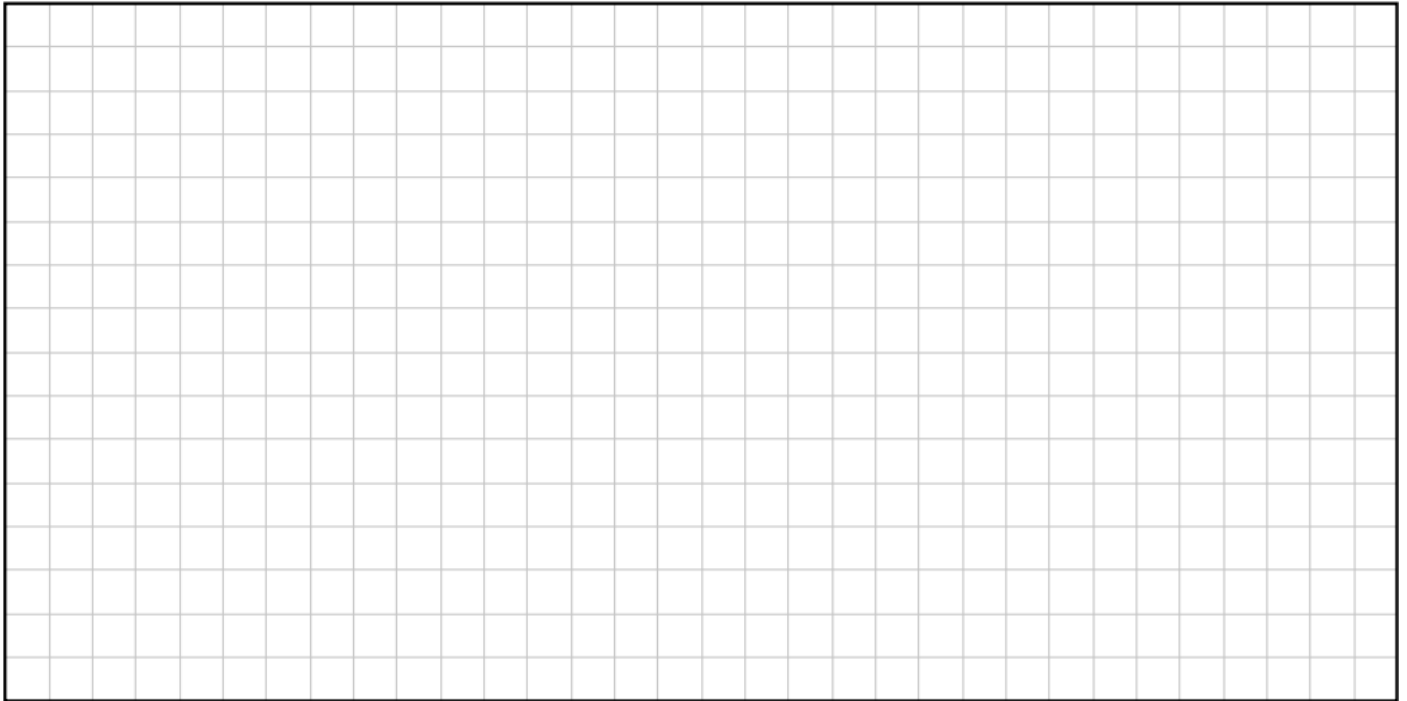


4 ► 2019 JCOL Paper 2 – Question 7 (c)

Filip measures the height of seven of the students in his class. Their heights, in cm, are:

166 168 168 169 172 173 177

Work out the **median** of the data, in cm.

A large grid for working out the median of the data. The grid is 20 columns wide and 20 rows high, providing space for calculations and showing the sorted data: 166, 168, 168, 169, 172, 173, 177.

5 ► 2017 JCOL Paper 2 – Question 8 (c)

The diagram below shows part of a climbing frame.

The points B and C are on the ground.

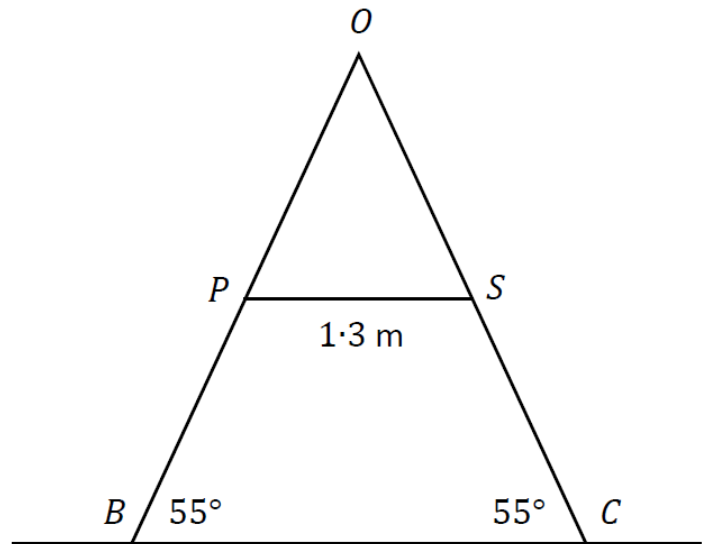
The legs $[OB]$ and $[OC]$ are joined by the horizontal bar $[PS]$.

Ava measures the angle that each of the legs makes with the ground.

She finds that they are both 55° .

OBC and OPS are **similar** triangles.

Explain what this means.



A large rectangular area filled with a grid of small squares, intended for the student to write their explanation of what it means for two triangles to be similar.