

Topics

Area, Perimeter and Volume – Can I use algebra to calculate missing dimensions?

1 ► 2019 JCOL Paper 1 – Question 4

Applied Arithmetic (Financial) – Can I calculate interest?

2 ► 2013 JCOL Paper 1 – Question 3 (c)

Statistics – Can I draw a histogram?

3 ► 2022 JCOL Paper – Question 6 (d)

Probability – Can I calculate probabilities using two-way tables?

4 ► 2016 JCHL Paper 2 – Question 2 (a)

Transformations – Can I identify the image of an object under various transformations?

5 ► 2018 JCOL Paper 2 – Question 7 (d)

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

 [JCOL Resources by Topic](#)

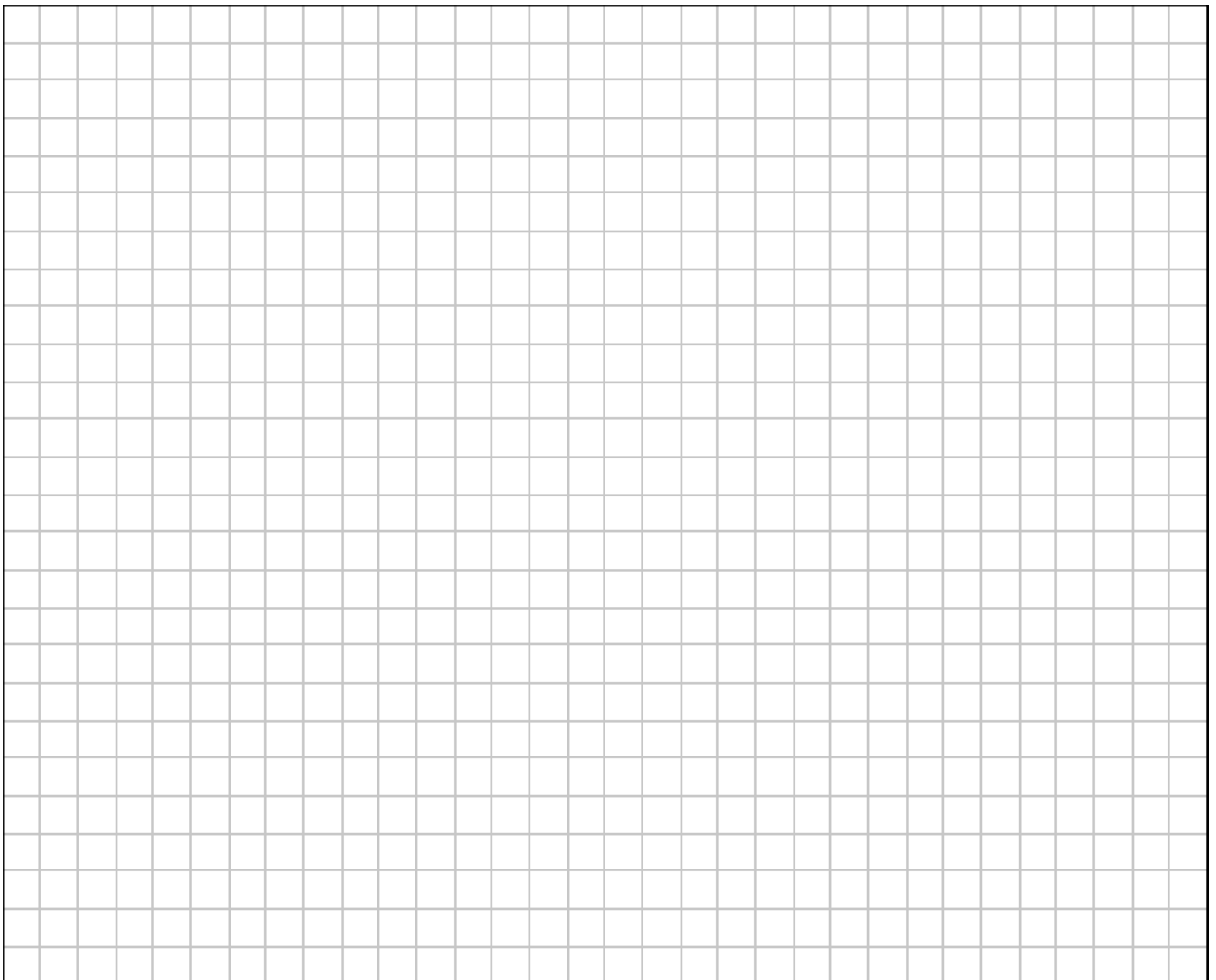
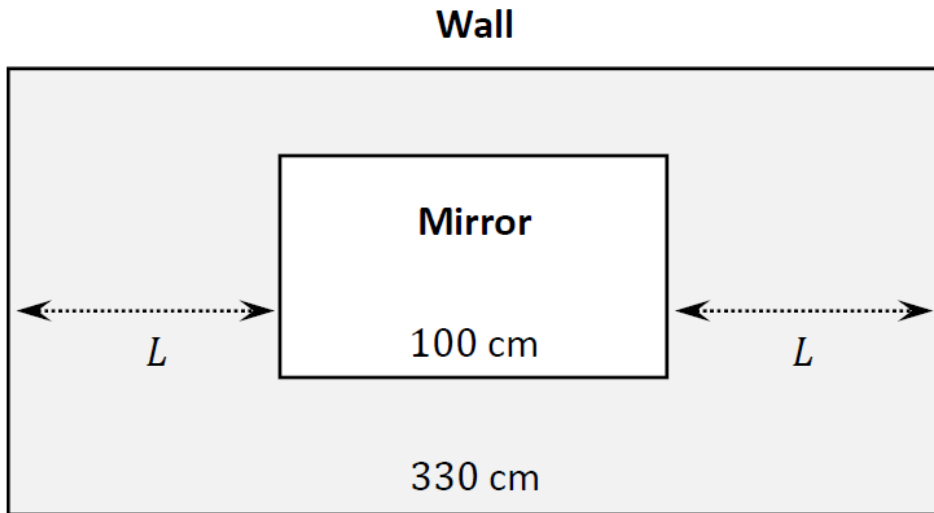
 [JCOL Revision – 50 Common Questions](#)

1 ► 2019 JCOL Paper 1 – Question 4

Damien is putting a mirror on a wall. The wall is 330 cm wide and the mirror is 100 cm wide.

Damien wants to put the mirror in the middle of the wall, as shown.

Work out the value of L , the distance from the mirror to each end of the wall.



2 ► 2013 JCOL Paper 1 – Question 3 (c)

(i) €10 000 is invested at 1.5% per annum, compound interest.

What is the amount of the investment at the end of one year?

(ii) The money is left invested for a second year.

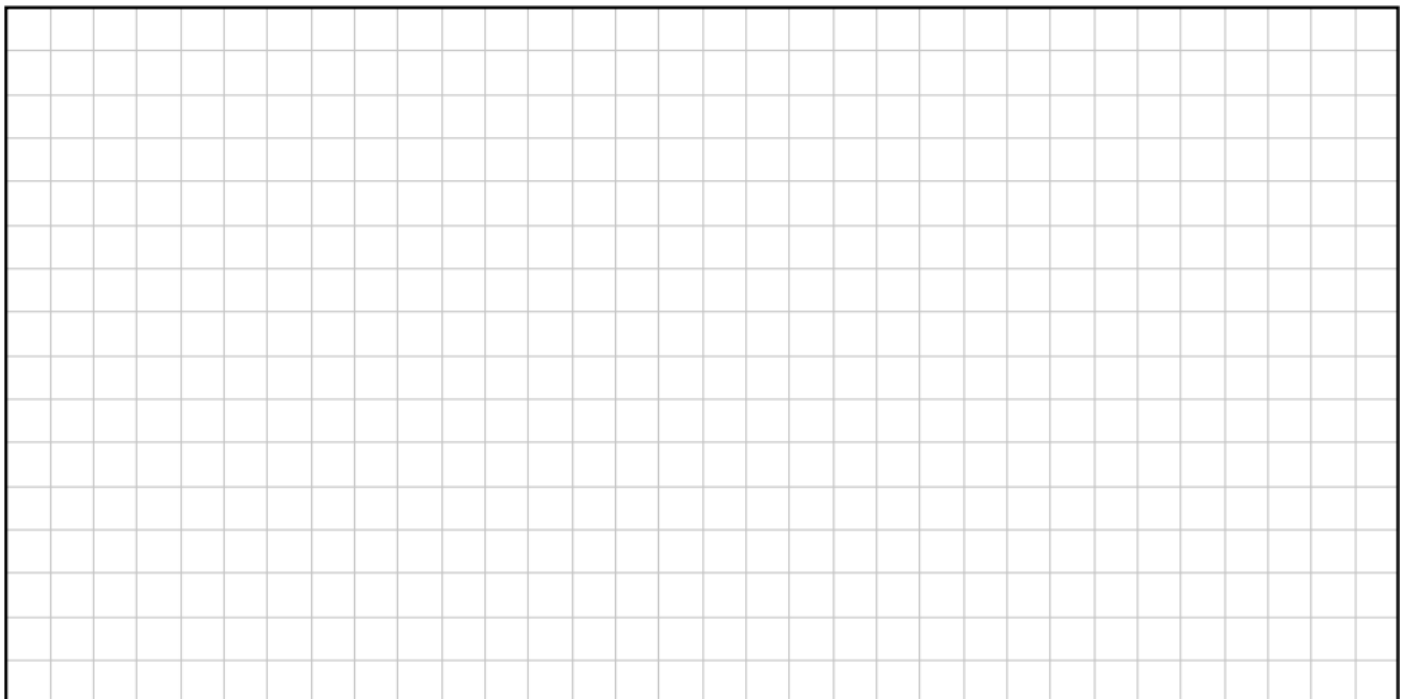
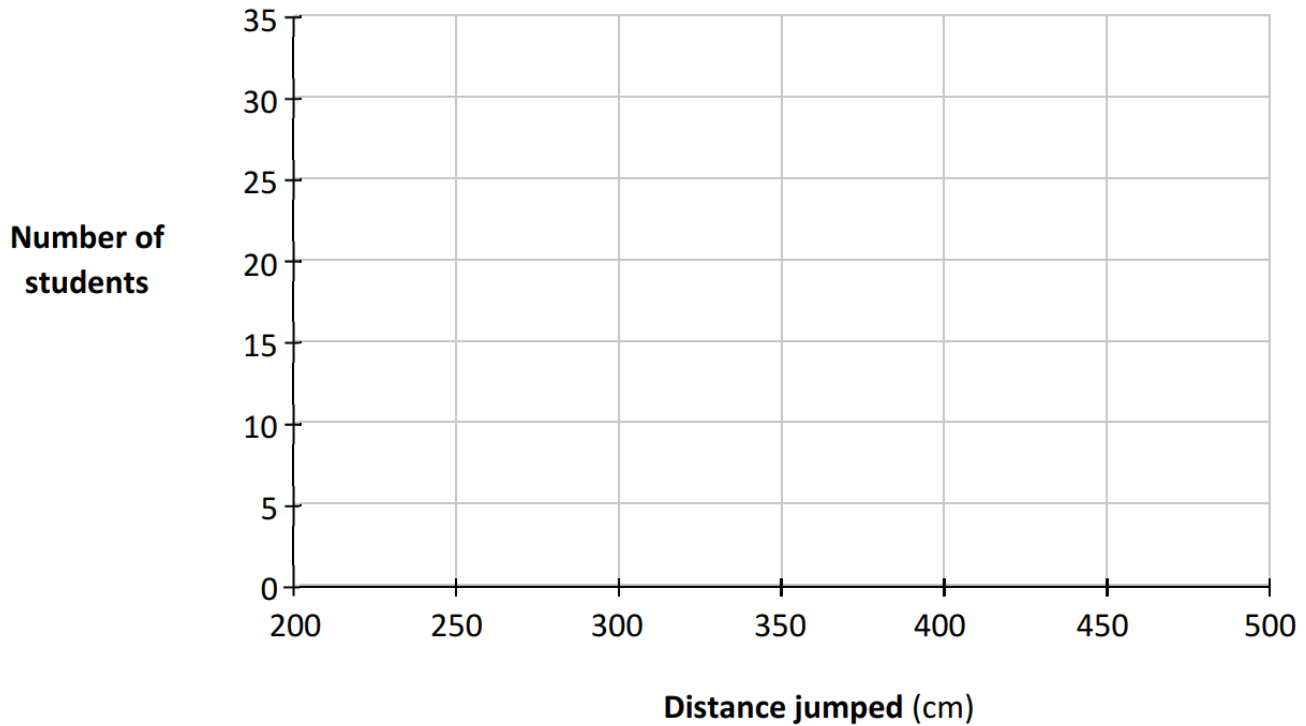
How much interest is earned over the two years?

3 ► 2022 JCOL Paper – Question 6 (d)

Draw a **histogram** to represent the data from the frequency table.

Use the axes and scales below.

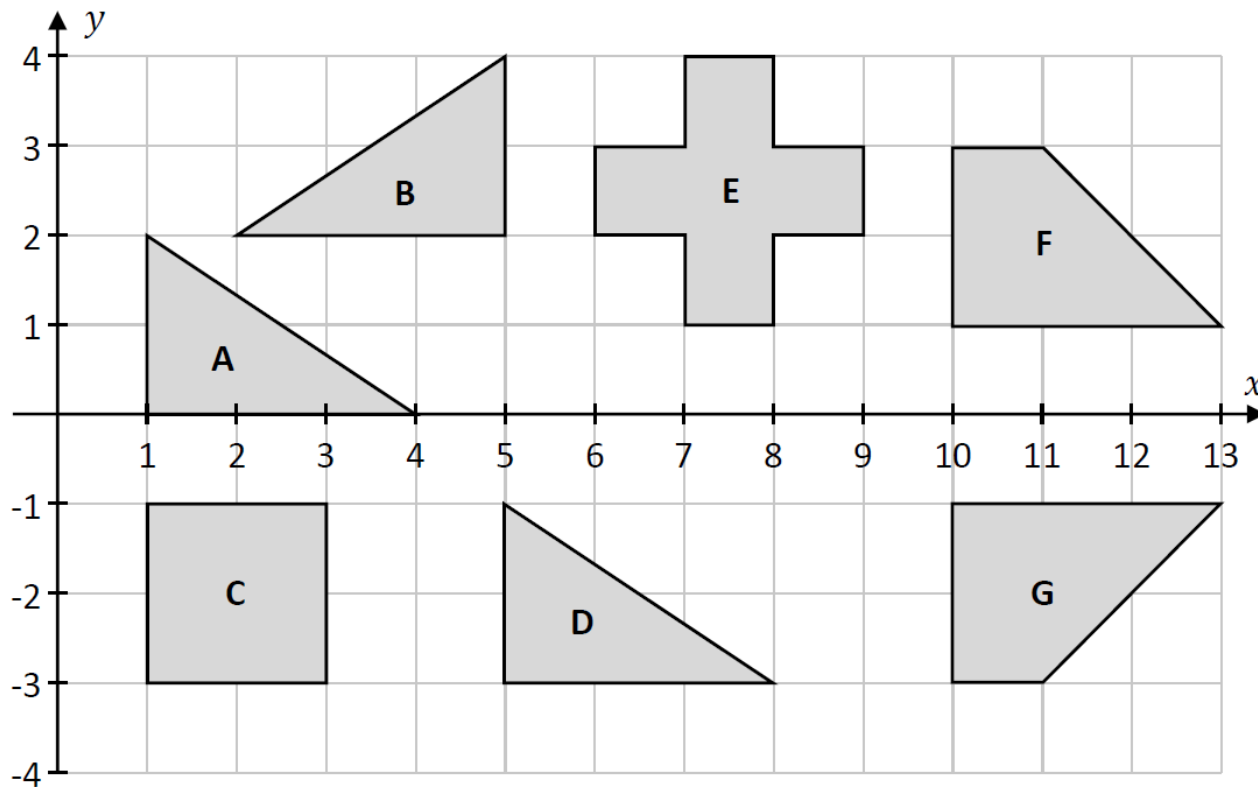
Distance jumped (cm)	200 – 250	250 – 300	300 – 350	350 – 400	400 – 450	450 – 500
Number of students	10	15	25	32	10	3



5 ► 2018 JCOL Paper 2 – Question 7 (d)

Seven shapes are shown on the co-ordinate diagram below.

They are labelled A, B, C, D, E, F, and G.



Complete each of the following statements correctly.

- (i) Shape C has exactly axes of symmetry.
- (ii) Shape G is the image of shape under axial symmetry.
- (iii) Shape A is the image of shape under a translation.

