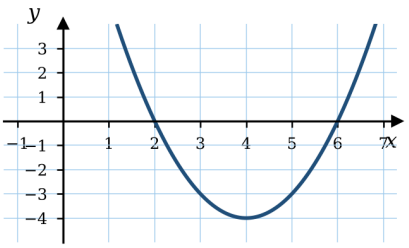
Day 37 **B Tier 10-a-day**

1 Write down the number of faces and edges of a triangular-based pyramid.

2 The diagram shows the graph of
$y = x^2 - 8x + 12$
(a) Write down the solutions of $x^2 - 8x + 12 = 0$
(b) Write down the coordinates of the minimum point of the graph.



3 The scale of a map is 1 : 5000.
Two bridges are 8 cm apart on the map.
Work out the real distance between them.
Give your answer in metres.

4 Solve $4(2x + 2) = 80$

5 The table shows some information about 64 members of a leisure centre.
One person from the group "Children" is chosen at random.
Find the probability that this person chose "Swim".

	Swim	Gym	Total
Adults	12		32
Children		27	
Total			64

Day 37 **B Tier 10-a-day**

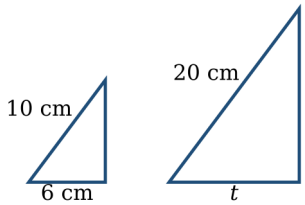
6 Write these in order of size.
Start with the smallest.
75%, 0.25, 56%, $\frac{3}{10}$

7 The four angles of a quadrilateral are x°, (x + 15)°, 2x° and (2x + 3)°.
Work out the size of the largest angle.

8 The table shows the lengths of some leaves.
(a) Write down the modal class.
(b) Work out an estimate for the mean.

Length, l (cm)	Frequency
$10 < l \leq 30$	4
$30 < l \leq 50$	10
$50 < l \leq 70$	5
$70 < l \leq 90$	6

9 The two triangles are similar.
(a) Write down the scale factor of the enlargement from the smaller triangle to the larger triangle.
(b) Work out the value of t.
The diagram is not drawn accurately.



10 The number x is rounded to the nearest 10.
The result is 550.
Write down the error interval for x.