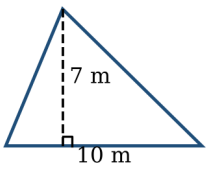
Day 301 **B Tier 10-a-day**

1 Each exterior angle of a regular polygon is 60°.
Work out the number of sides of the polygon.

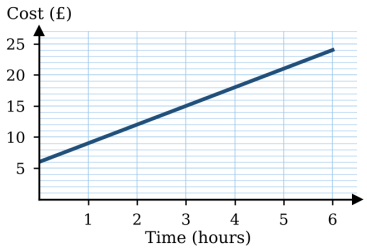
2 Here are the first four terms of a sequence.
5, 6, 11, 17
(a) Write down the next two terms.
(b) Describe the rule for continuing the sequence.

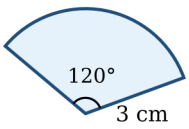
3 Work out $3\frac{1}{5} - 1\frac{1}{2}$
Give your answer as a mixed number.

4 This is a triangle.
Find the area of the triangle.
The diagram is not drawn accurately.



5 A company hires out bikes. There is a fixed charge plus a cost for each hour.
The graph shows the total cost.
(a) Write down the fixed charge.
(b) Work out the cost for each hour.



Day 301	B Tier 10-a-day
6 Write these numbers in order of size. Start with the smallest. 3×10^2, 34,000, 9.8×10^{-5}, 170,000	
7 A straight line has equation $y = 5x - 10$ (a) Write down the coordinates of the point where the line crosses the y-axis. (b) Work out the coordinates of the point where the line crosses the x-axis.	
8 City E has a population of 15,000. Its area is 30 km^2. Work out the population density. Give your answer in people per km^2.	
9 The diagram shows a sector of a circle with radius 3 cm and angle 120°. (Calculator) Work out the length of the arc of the sector. Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
10 Here are the heights of some plants. 11, 20, 19, 14, 17, 15 Work out the mean.	