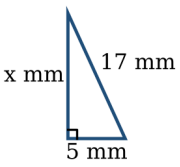
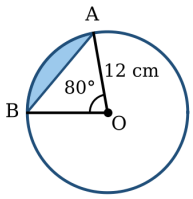
Day 256	A Tier 10-a-day
1 (a) Write 0.0077657 correct to 3 significant figures. (b) Write 52.345 correct to 2 decimal places.	
2 Convert 1200 mm^2 into cm^2.	
3 A machine exerts a force of 120 N on the floor. The area in contact with the floor is 2 m^2. Work out the pressure on the floor in N/m^2.	
4 (a) Factorise $x^2 - 9$ (b) Use the same idea to work out $66^2 - 34^2$ without a calculator.	
5 Work out the length of x. (Calculator) Give your answer to 3 significant figures. The diagram is not drawn accurately. 	

Day 256 **A Tier 10-a-day**

6 The price of a games console is increased by 50%.
The new price is then increased by 25%.
Work out the overall percentage change.

7 The diagram shows a circle with centre O and radius 12 cm.
Angle AOB = 80°. (Calculator)
Work out the area of the shaded segment.
Give your answer to 3 significant figures.



8 Solve $\frac{6}{(x+3)} + \frac{2}{(x-5)} = 1$

9 Work out $(5.6 \times 10^6) + (9.1 \times 10^3)$
Give your answer in standard form.

10 Make x the subject of $y = \frac{4x+5}{3x-4}$