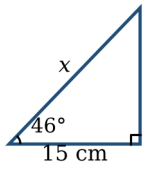
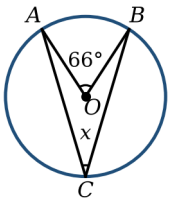
Day 131	B Tier 10-a-day
1 Work out (a) $3^2 + 3^3$ (b) $\sqrt{16} - 4^2$	
2 Write the ratio 48 : 40 in its simplest form.	
3 Work out the length of x. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
4 Isla and Sam share 84 stickers in the ratio 1 : 6. Work out how many Isla gets.	
5 Factorise $36 - y^2$	

Day 131 **B Tier 10-a-day**

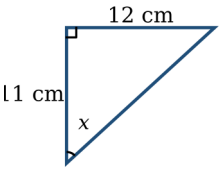
6 £400 is invested for 2 years at 5% compound interest per year. (Calculator)
Work out the total interest earned.

7 A, B and C are points on a circle, centre O.
Angle AOB = 66°.
Work out the size of angle ACB, marked x.
Give a reason for your answer.
The diagram is not drawn accurately.



8 Work out $(4.8 \times 10^5) + (4.8 \times 10^5)$
Give your answer in standard form.

9 Work out the size of angle x. (Calculator)
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



10 Hannah says, "3n + 4 is a prime number for every positive whole number n."
Show that Hannah is wrong.