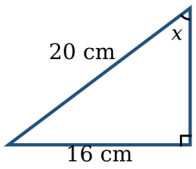
Day 297	B Tier 10-a-day
1 The scale of a map is 1 : 50,000. Two towns are 12.5 cm apart on the map. Work out the real distance between the towns. Give your answer in kilometres.	
2 Write 1544.9289 (a) correct to 2 decimal places, (b) correct to 3 significant figures.	
3 A car travels 18 km on each litre of petrol. (Calculator) Petrol costs £1.60 per litre. Work out the cost of the petrol for a journey of 360 km.	
4 Here is a list of numbers. 52, 9, 12, 63, 83, 97, 87, 21 From the list, write down (a) a square number (b) a factor of 60	
5 Factorise $n^2 - 81$	

Day 297 **B Tier 10-a-day**

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



7 The population of a town is 4500. (Calculator)
It increases by 2% each year.
Work out the population after 2 years.
Give your answer to the nearest whole number.

8 In a bag of counters, the ratio of white to green is 5 : 7.
The ratio of green to blue is 1 : 4.
Write down the ratio white : green : blue.

9 Solve $\frac{x - 3}{2} = 2$

10 The diagram shows a sector of a circle with radius 8 cm and angle 270°. (Calculator)
Work out the area of the sector.
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.

