Day 146	B Tier 10-a-day
1 A rectangle is 2 cm long and 8 cm wide. It is enlarged by scale factor 2.5. (a) Write down the length and width of the enlarged rectangle. (b) Work out the perimeter of the enlarged rectangle.	
2 Here are the number of books read by some students. 22, 22, 36, 35, 21, 10, 31, 28, 11 (a) Find the median. (b) Work out the range.	
3 PQRS is a kite with PQ = PS and RQ = RS. Angle SPQ = 124° and angle QRS = 98°. Work out the size of angle PQR.	
4 Work out $(6 \times 10^5) + (5.9 \times 10^5)$ Give your answer in standard form.	
5 A piece of wood has a mass of 24 g and a volume of 40 cm^3. Work out its density. Give your answer in g/cm^3.	

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6 Solve $3x - 4 = 4$ Give your answer as a fraction in its simplest form.	
7 The area of a circle is 25π m^2. Work out the radius of the circle.	
8 The equation $x^3 - x = 11$ has a solution between 2 and 3. (Calculator) Use trial and improvement to find this solution. Give your answer correct to 1 decimal place.	
9 A tap fills a tank at a rate of 6 litres per minute. The tank holds 120 litres. How long does it take to fill the empty tank?	
10 The time of a race is 11.9 seconds, correct to 1 decimal place. Write down the error interval for the time. Use the letter t.	