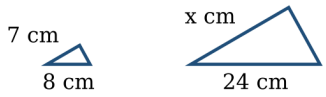
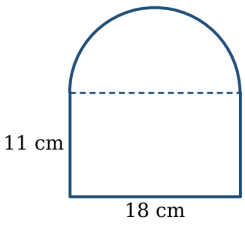
Day 106	A Tier 10-a-day
1 Here are the ingredients for 12 flapjacks. Oats: 240 g Butter: 240 g Flour: 600 g (a) Work out how much oats is needed for 5 flapjacks. (b) Hannah has 472 g of butter. What is the greatest number of flapjacks she can make?	
2 The two triangles are similar. Work out the value of x. The diagrams are not drawn accurately. 	
3 (a) Work out 0.8×0.08 (b) Work out $0.60 \div 0.06$	
4 Two similar models are 15 cm and 25 cm tall. The surface area of the smaller model is 180 cm^2. Work out the surface area of the larger model.	
5 Work out $(4.8 \times 10^{-1}) - (2.4 \times 10^{-3})$ Give your answer in standard form.	

Day 106	A Tier 10-a-day
6 Priya and Nia each invest £5000 for 2 years. (Calculator) Priya's account pays 5% simple interest per year. Nia's account pays 5% compound interest per year. Work out how much more interest Nia earns than Priya.	
7 Prove that the sum of five consecutive integers is always a multiple of 5.	
8 The diagram shows a shape made from a rectangle and a semicircle. Work out the perimeter of the shape. Give your answer in terms of π. The diagram is not drawn accurately. 	
9 Here are the first five terms of a quadratic sequence. 7, 23, 47, 79, 119 (a) Find an expression for the nth term. (b) Work out the 15th term.	
10 Ben invests £14,500 in a savings account. (Calculator) Compound interest is paid at a fixed rate each year. After 2 years the investment is worth £17,545. Work out the annual rate of interest.	