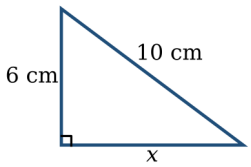
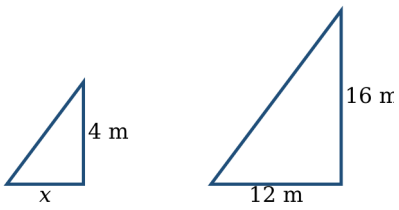
Day 287	B Tier 10-a-day
1 Write the ratio 1.4 m : 160 cm in its simplest form.	
2 What is the order of rotational symmetry of an isosceles triangle?	
3 A plumber charges a call-out fee of £6 plus £9 for each hour of work. (a) Work out the total cost for 9 hours. (b) The total cost is £87. Work out the number of hours.	
4 Find the length of x. The diagram is not drawn accurately. 	
5 The nth term of a sequence is 9n + 9 (a) Work out the 7th term. (b) Is 216 a term in the sequence? You must show how you get your answer.	

Day 287	B Tier 10-a-day
6 C is directly proportional to t. When t = 2, C = 4. Find a formula for C in terms of t.	
7 Two buses leave a bus station at 08:30. One bus leaves every 25 minutes. The other bus leaves every 15 minutes. At what time do both buses next leave together?	
8 The two triangles are similar. (a) Work out the scale factor of the enlargement from the smaller triangle to the larger triangle. (b) Work out the value of x. The diagram is not drawn accurately. 	
9 The length of a rectangle is 10 cm and its width is 22 cm. Both measurements are correct to the nearest cm. Work out the lower bound for the area of the rectangle.	
10 A coat costs £20. In a sale the price is reduced by 40%. (a) Work out the new price. (b) A car is worth £2000. Its value goes down by 15% in a year. Work out its new value.	