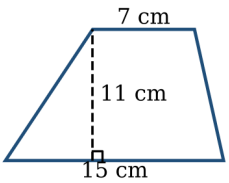
Day 130	B Tier 10-a-day
1 £1 = 1.3 euros (a) Change £20 into euros. (b) Change €52 into pounds.	
2 Here is a trapezium. Calculate the area of this trapezium. The diagram is not drawn accurately. 	
3 Write the ratio 9 : 36 in the form 1 : n	
4 Show that 3(2n + 1) + 3(2n + 3) is always a multiple of 12, where n is a whole number.	
5 Ella invests £800 for 3 years. The account pays 2% simple interest per year. (a) Work out the interest earned each year. (b) Work out the total amount in the account after 3 years.	

Day 130	B Tier 10-a-day
6 A stage is made from a rectangle and a semicircle. (Calculator) The rectangle is 10 m wide and 8 m high. The diameter of the semicircle is 10 m. (a) Work out the area of the shape. (b) Work out the perimeter of the shape. Give each answer correct to 1 decimal place.	
7 (a) Write $\frac{33}{50}$ as a decimal. (b) Write $\frac{5}{12}$ as a recurring decimal. For part (b), write down the first 8 decimal places and say which digits repeat.	
8 A tank exerts a force of 1200 N and causes a pressure of 30 N/m^2. Work out the area in contact with the ground.	
9 The price of a laptop is £120. The price is first reduced by 30%, then the new price is increased by 25%. (a) Work out the final price. (b) Work out the overall percentage decrease in the price.	
10 A shop sells pens and pencils. All pens cost the same and all pencils cost the same. 2 pens and 2 pencils cost 320p. 1 pen and 2 pencils cost 185p. Work out the cost of one pen and the cost of one pencil.	