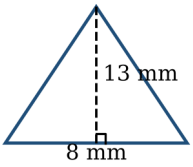
Day 197	B Tier 10-a-day
1 In a pie chart showing the answers of 72 people, the angle for juice is 60°. How many people chose juice?	
2 The diagram shows a triangle. Calculate the area of this triangle. The diagram is not drawn accurately.  	
3 Write the ratio 9 : 45 in the form 1 : n	
4 Work out the gradient of the straight line that passes through the points (−4, 8) and (−5, 15).	
5 A cereal box measures 12 cm by 6 cm by 4 cm. Work out the total surface area.	

Day 197	B Tier 10-a-day
6 Priya bought a bike for £2000 and sold it for £1900. Work out the percentage loss.	
7 Expand and simplify $(x - 1)(x + 5)$	
8 The length of a rectangle is 17 cm and its width is 8 cm. Both measurements are correct to the nearest cm. Work out the upper bound for the perimeter of the rectangle.	
9 A cyclist travels at 30 km/h for 1 hour and then at 20 km/h for 1 hour. Work out its average speed for the whole journey.	
10 Show that $(n + 9)(n + 8) - n(n + 17)$ has the same value for every whole number n.	