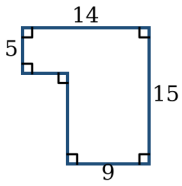
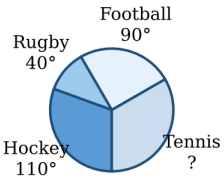
Day 328	B Tier 10-a-day
1 Here are the number of books read by some students. 69, 69, 47, 43, 41, 53, 44 (a) Find the median. (b) Work out the range.	
2 (a) Write 2:25 pm using the 24-hour clock. (b) Write 19:50 using am or pm.	
3 The diagram shows the shape of a playground. All the corners are right angles. All lengths are in cm. (a) Work out the perimeter. (b) Work out the area. 	
4 Simplify fully (a) $(3y^2)^3$ (b) $16y^8 \div 4y^5$	
5 A train ticket costs £250. The price goes up by 12%. (a) Work out the new price. (b) A car is worth £2500. Its value goes down by 10% in a year. Work out its new value.	

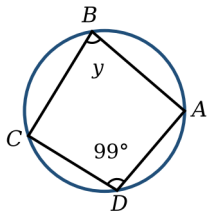
Day 328 **B Tier 10-a-day**

6 The pie chart shows the favourite choices of 360 people.
The angle for Tennis is not shown.
Work out how many people chose Tennis.



7 Solve $5x + 4 = 6$
Give your answer as a fraction in its simplest form.

8 A, B, C and D are points on a circle.
Angle ADC = 99°.
Work out the size of angle ABC, marked y.
Give a reason for your answer.
The diagram is not drawn accurately.



9 A cyclist travels at 30 km/h for 1.5 hours and then at 72 km/h for 1.5 hours.
Work out its average speed for the whole journey.

10 A fuel tank is $\frac{3}{4}$ full.
5 litres of fuel are added.
The fuel tank is now $\frac{4}{5}$ full.
Work out the capacity of the fuel tank.