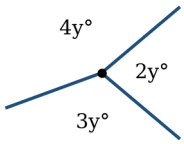
Day 339 **B Tier 10-a-day**

1 $g(x) = x^2 + 2$
(a) Work out g(4)
(b) Work out g(−4)

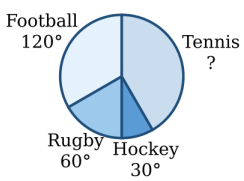
2 The diagram shows 3 angles round a point.
Work out the value of y.
The diagram is not drawn accurately.



3 A car uses 50 litres of petrol to travel 800 km.
Work out how many kilometres it travels on each litre of petrol.

4 Write each answer as a single power of 3.
(a) $(3^3)^4$
(b) $3^8 \times 3^4 \div 3^4$

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



Day 339	B Tier 10-a-day
6 $y = 3x^2 + 4x - 6$ Work out the value of y when x = 4	
7 A TV screen is a rectangle 60 cm wide and 25 cm high. Work out the length of the diagonal of the screen.	
8 The equation $x^3 + x = 90$ has a solution between 4 and 5. (Calculator) Use trial and improvement to find this solution. Give your answer correct to 1 decimal place.	
9 The number x is rounded to the nearest 10. The result is 370. Write down the error interval for x.	
10 The length of a rectangle is 12 cm and its width is 6 cm. Both measurements are correct to the nearest cm. Work out the lower bound for the area of the rectangle.	