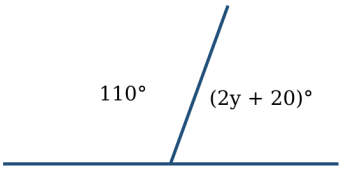
Day 345 **B Tier 10-a-day**

1 9 bottles of water cost £1.35.
Work out the cost of 6 bottles of water.

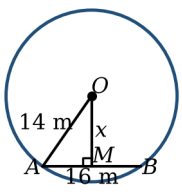
2 The diagram shows 2 angles on a straight line.
Work out the value of y.
The diagram is not drawn accurately.



3 The probability that a seed grows is $\frac{9}{10}$.
Work out the probability that a seed does not grow.

4 Expand and simplify $(3x - 6)(x + 6)$

5 A circle has centre O and radius 14 m.
(Calculator)
AB is a chord and M is the midpoint of AB. OM is perpendicular to AB.
Work out the value of x. Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



Day 345 **B Tier 10-a-day**

6 A stratified sample of 40 students is taken from the 1000 students in the table.
Work out how many students should be sampled from Year 7.

Group	Students
Year 7	375
Year 8	125
Year 9	500

7 Leah is paid £8 per hour for a 35 hour week. (Calculator)
Overtime is paid at time and a half.
In one week she works 6 hours of overtime.
Work out her total pay for that week.

8 Triangle XYZ is isosceles with XY = XZ = 13 cm. (Calculator)
The base YZ = 8 cm.
Work out the size of angle XYZ.
Give your answer correct to 1 decimal place.

9 The length of a rectangle is 16 cm and its width is 9 cm.
Both measurements are correct to the nearest cm.
Work out the lower bound for the area of the rectangle.

10 Solve $6(x - 5) = 2(x - 5)$