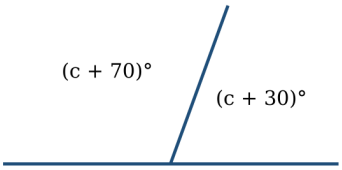
Day 248 **B Tier 10-a-day**

1 The table shows the times taken by some students to complete a task.
(a) Write down the modal class.
(b) Work out an estimate for the mean.

Time, t (minutes)	Frequency
$0 < t \leq 5$	6
$5 < t \leq 10$	3
$10 < t \leq 15$	4
$15 < t \leq 20$	8
$20 < t \leq 25$	4

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



3 Simplify 5p + 7q + 3p + 8q

4 Write these in order of size.
Start with the smallest.
60%, 45%, 92%, $\frac{2}{5}$

5 12 machines take 2 hours to make a batch of parts.
All the machines work at the same rate.
How long would it take 6 machines?

Day 248	B Tier 10-a-day
6 What fraction of 1 hour is 40 minutes? Give your answer in its simplest form.	
7 Solve $5(x - 5) = 3(x - 3)$	
8 (a) Write 2.6 hours in hours and minutes. (b) Write 2 hours 30 minutes as a decimal number of hours.	
9 Triangle XYZ is isosceles with XY = XZ = 8 m. (Calculator) The base YZ = 8 m. Work out the size of angle XYZ. Give your answer correct to 1 decimal place.	
10 A square-based pyramid has base side 9 cm and vertical height 12 cm. Volume of a pyramid = $\frac{1}{3}$ × base area × height Work out the volume of the pyramid.	