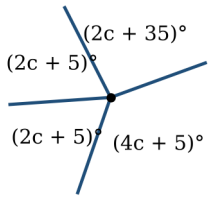
Day 13	B Tier 10-a-day

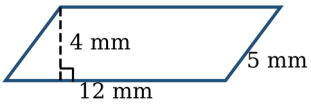
1 Here are the masses of some parcels.
6, 2, 7, 7
Work out the mean.

2 The diagram shows 4 angles round a point.
Work out the value of c.
The diagram is not drawn accurately.



3 Solve $3n + 1 = 2n + 7$

4 This is a parallelogram.
Calculate the area of this parallelogram.
The diagram is not drawn accurately.



5 $g(x) = 3x^2 - 3$
(a) Work out g(4)
(b) Work out g(−1)

Day 13 **B Tier 10-a-day**

6 A tin of beans has radius 8 cm and height 20 cm. (Calculator)
Work out its volume.
Give your answer correct to 1 decimal place.

7 Simplify fully $\frac{6x^2}{3x}$

8 The table shows the masses of some parcels.
(a) Write down the modal class.
(b) Work out an estimate for the mean.

Mass, m (kg)	Frequency
$0 < m \leq 20$	7
$20 < m \leq 40$	10
$40 < m \leq 60$	4
$60 < m \leq 80$	4

9 A paddling pool is $\frac{1}{5}$ full.
56 litres of water are added.
The paddling pool is now $\frac{3}{8}$ full.
Work out the capacity of the paddling pool.

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 upper bound for the perimeter of the rectangle.