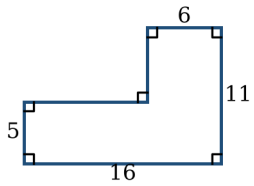
Day 24	B Tier 10-a-day
1 (a) Convert 2 litres to ml. (b) Convert 250 mm^2 to cm^2.	
2 A train leaves at 11:07. It arrives at 14:12. How long does the journey take?	
3 The diagram shows the shape of a patio. All the corners are right angles. All lengths are in m. (a) Work out the perimeter. (b) Work out the area. 	
4 Work out (a) $\frac{1}{5}$ of 50 (b) $\frac{1}{12}$ of £96	
5 Sam tests a biased spinner landing on red. In 250 trials it happens 125 times. Estimate how many times it will happen in 200 trials.	

Day 24 **B Tier 10-a-day**

6 In triangle PQR, PQ = 16 m, QR = 11 m and angle PQR = 140°. (Calculator)
Work out the area of the triangle.
Give your answer correct to 1 decimal place.

7 Solve $5x - 2 = 16$
Give your answer as a fraction in its simplest form.

8 In a bag of counters, the ratio of red to blue is 3 : 5.
The ratio of blue to white is 2 : 1.
Write down the ratio red : blue : white.

9 Here is an iteration formula.
$x_{n+1} = \sqrt{2x_n + 12}$
$x_0 = 2$
(a) Work out x_1
(b) Work out x_2. Give your answer correct to 3 decimal places. (Calculator)

10 A stratified sample of 30 students is taken from the 400 students in the table.
Work out how many students should be sampled from Group B.

Group	Students
Group A	160
Group B	160
Group C	80