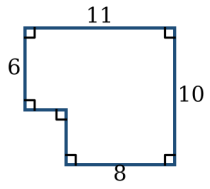
Day 83 **B Tier 10-a-day**

1 6 notebooks cost £4.50.
(a) Work out the cost of 7 notebooks.
(b) How many notebooks can be bought for £6?

2 The angles in a triangle are x°, 3x° and (x + 5)°.
(a) Work out the value of x.
(b) Work out the size of the largest angle.

3 Solve $4x - 11 < -31$

4 The diagram shows the shape of a classroom floor.
All the corners are right angles. All lengths are in cm.
(a) Calculate the perimeter.
(b) Calculate the area.



5 Work out
(a) $9^2 + 4^3$
(b) $\sqrt{100} - 4^2$

Day 83	B Tier 10-a-day
6 y is directly proportional to x. When x = 12, y = 72. Find the value of y when x = 11.	
7 The circumference of a circle is 15 m. (Calculator) Work out the diameter of the circle. Give your answer correct to 1 decimal place.	
8 Solve the simultaneous equations $3x + y = -4$ $x - 2y = 1$	
9 The length of a rectangle is 27 cm and its width is 8 cm. Both measurements are correct to the nearest cm. Work out the lower bound for the area of the rectangle.	
10 Estimate the value of $\frac{72.5}{1.68} + 32.8$ Show your rounding to 1 significant figure.	