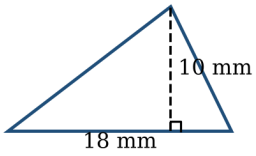
Day 98 **B Tier 10-a-day**

1 Here is a triangle.
Work out the area of the triangle.
The diagram is not drawn accurately.



2 The ratio of red to blue among the counters in a bag is 3 : 2.
There are 6 blue.
How many red are there?

3 Work out $(13.6 \times 10^8) \div (8 \times 10^5)$
Give your answer in standard form.

4 The stem and leaf diagram shows 11 values.
(a) Find the median.
(b) Work out the range.

Stem	Leaf
1	2 5 6 8 9
2	2 6 7
3	2 4 6

Key: 1 | 2 means 12

5 Work out the value of this expression.
(Calculator)

$$\frac{8.2^3}{7.5}$$

Give your answer correct to 4 significant figures.

Day 98	B Tier 10-a-day
6 Solve $6(x + 6) = 3(x + 10)$	
7 Write these numbers in order of size. Start with the smallest. 8.5×10^6, 3.3×10^{-5}, 6.8×10^0, 0.081	
8 Solve $x^2 + 9x = 0$	
9 A cone has base radius 3 m and vertical height 12 m. Volume of a cone = $\frac{1}{3}\pi r^2 h$ Work out the volume of the cone. Give your answer in terms of π.	
10 £1 = 1.25 dollars (a) Change £40 into dollars. (b) Change $187.50 into pounds.	