Day 158	B Tier 10-a-day
1 Write these in order of size. Start with the smallest. $\frac{11}{40}$, 90%, $\frac{3}{4}$, $\frac{3}{10}$	
2 A rectangle is 8 cm long and 3 cm wide. It is enlarged by scale factor 4. (a) Write down the length and width of the enlarged rectangle. (b) Work out the perimeter of the enlarged rectangle.	
3 Shampoo is sold in two sizes. Small: 200 ml for 70p Large: 300 ml for 87p Which size is better value for money? You must show your working.	
4 Solve $\frac{5x}{4} + 3 = 38$	
5 A block exerts a force of 96 newtons on the floor. The area in contact with the floor is 8 m^2. Work out the pressure on the floor. Give your answer in N/m^2.	

Day 158 **B Tier 10-a-day**

6 A fish tank is a cuboid 20 cm long, 20 cm wide and 30 cm deep.
(a) Work out the volume of the fish tank.
(b) How many litres of water does it hold when full?
1 litre = 1000 cm^3

7 A motorbike travels at 54 km/h.
Work out its speed in metres per second.

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

9 Solve $5x - 8 = 16$
Give your answer as a fraction in its simplest form.

10 The diagram shows the shape of a garden.
All the corners are right angles. All lengths are in m.
(a) Calculate the perimeter.
(b) Calculate the area.

