Year 9 Core Maths: Homework Sheet 3 – Measurement, Perimeter & Area

1. Change the units for these measurements as indicated.

   a. 5500cm to km _____

   b. 2.68m to mm _____

   c. 2.75m to cm _____

   d. 21.8km to m _____

   e. 4mm to cm _____

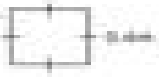
   f. 204g to mg _____

   g. 1100t to kg _____

   h. 1km 85mm to cm _____

2. Calculate the **perimeter** and **area** of each of these shapes:

   a. 

   b. 

3. Convert these area measurements:

   a. 1.2 m^2 = _____ cm^2

   b. 11 cm^2 = _____ mm^2

   c. 4 ha = _____ m^2

   d. 2 km^2 = _____ ha

   e. 1 ha = _____ m^2

   f. 40 000cm^2 = _____ ha

   g. 1 cm^2 = _____ mm^2

   h. 0.02 km^2 = _____ ha

   i. 2000 mm^2 = _____ cm^2

4. A circular swimming pool has a diameter of 10m. Work out how many square metres of tiles would be needed to cover the base.

5. How many metres of edging would be needed to go around the edge?

6. A square field has 27m fences on each side. How many square metres of grass would there be in the field?

7. If each cow needs 4 square metres of grass to eat, how many cows can you put into this paddock?

8. Calculate the **area** and **perimeter** of these shapes. All measurements are in cm

   a. 

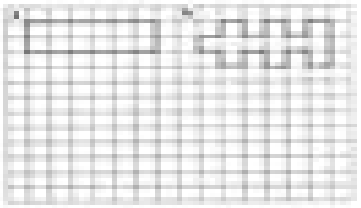
   b. 

9. Calculate the area of these rhombuses:

   a. 

   b. 

10. The two shapes below both have an area of 12 cm^2. (Each square represents 1 cm^2):



    Write down the perimeter of shapes a and b:

    a. a perimeter = _____ cm

    b. b perimeter = _____ cm

11. Complete this table for the side length, area and perimeter of these **squares**:

Side Length	Area	Perimeter
2 cm	4 cm^2	8 cm
5 cm		
	36 cm^2	
8.4 cm		
		28 cm
12 cm		
1.2 cm		