Metric Measurement

Name: _____

Metric System – Conversions

Prefix	kilo	hecto	deca	UNIT	deci	centi	mili
Symbol	k	h	da	g L m	d	c	m

1. Complete each length conversion.
   a) 2.3m to centimetres

   b) 7000m to kilometres

   c) 8cm to millimetres

   d) 125cm to metres

   e) 52mm to centimetres

   f) 1.34km to metres

2. Complete each mass conversion.
   a) 800mg to grams

   b) 600g to kilograms

   b) 3.75kg to grams

   d) 2.3g to milligrams

   c) e) 0.6kg to grams

   f) 2300 mg to grams

3. Complete each area conversion.
    a) 125 mm² to cm²   b) 2410 cm² to m²

    c) 15 m² to mm²   d) 1.2 km² to m²

4. Complete each volume conversion.
    a) 4.926 km ³ to cm³   b) 24.9 m³ to cm³

    c) 26 955 mm³ to m³   d) 533 cm³ to m³

5. A paper cup holds 200 mL. How many cups can be filled from a 25-L bottle of water?

6. Each nail has a mass of 12g. What is the mass, in kilograms, of a carton containing 2000 of these nails?

7. A package of 500 sheets of paper has a mass of 1.8kg. What is the mass, in grams, of one sheet?

8. The length of each side of a square warehouse is 212 m.   Calcualte the perimeter of the warehouse, expressed in kilometres.

9. The length of each side of an octagon tabletop is 16.5 cm. Find the perimeter of the table top, expressed in metres.

10. The length of each side of a regular eleven-sided polygon is 8mm. Find the perimeter of the polygon, expressed in centimetres.