MAAPC20S Measurement Lesson 1

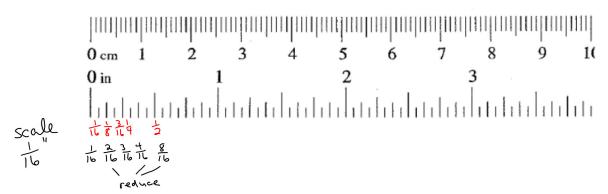
<u>Lesson One – Imperial Measures of Length</u>

There are two main measurement systems used today in Canada:

- <u>Système Internationale d'unités</u> (SI) or the <u>Metric System</u> (millimetre, centimetre, metre, kilometre)
- Imperial System (inches, feet, yard, mile)

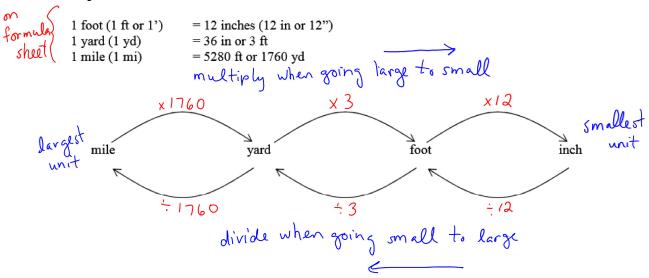
Imperial and Metric Ruler

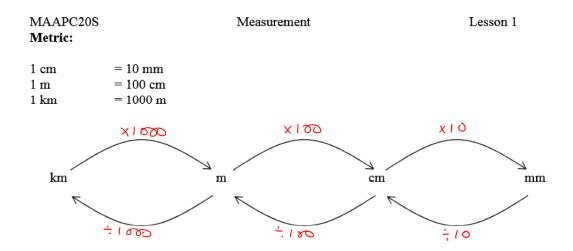
Imperial – each inch is broken down into $\frac{1}{16}in$, with other units of measure being $\frac{1}{8}in$, $\frac{1}{4}in$, $\frac{1}{2}in$



Metric – each centimeter is broken down into 10 millimetres.

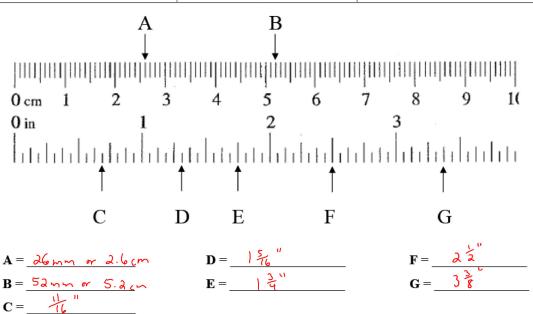
Imperial:





Estimation: Determine the most suitable units in both the imperial and metric systems for measuring the following:

	Metric	Imperial
Your height	m and lor cm	It and inches
Distance from Winnipeg to		. 1
Steinbach	Km	miles
Height of Pop Can	cm	in
Length of a Sheet of Curling		,
Ice	m	yd s
Diameter of a Dime	37 37	in



MAAPC20S Measurement Lesson 1 Example 1 – Converting Between Imperial Units Convert 5 yards to feet 5 yds × 3ft = 15 ft cross ply 1xd.xft = 5yds.3ft xtt : 2 / 3tt to fix inches to yards, feet and inches

to fix inches

12 inches

4 ft · 3 in

12 inches

14 ft · 3 in : lyd Ift 3 in 3 ft 2 in + 7 ft 1 in 10ft 13 in 12 in = 1ft

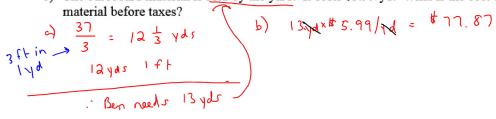
11ft 1in : 13 in = 1ft 1in 3 mi - 250 ft eneed to be in same units to subtract mi - 5 ft | mi = 5280ft e from formula sheet 3mix 5280 ft = 15 840 ft 15840ft -250ft 15 590 ft

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Example 2 – Solving Problems Involving Converting Between Units

Ben buys baseboard for a bedroom. The perimeter of the bedroom, excluding closets and doorway, is 37 ft.

- a) What length of baseboard is needed, in yards and feet?
- b) The baseboard material is sold by the yard. It costs \$5.99/yd. What is the cost of material before taxes?



Tyrell has 4 yd. of cord to make friendship bracelets. Each bracelet needs 8 in. of cord. How

Example 3 - Solving a Problem Involving Scale Diagrams

On the map with a scale of 1:4 750 000, the distance between Seward and Anchorage in Alaska is 1 3/4 in. What is the distance between these two towns to the nearest mile?

