ALBERTA DISTANCE LEARNING CENTRE

Mathematics 10-3

MAT1793

Unit C: Measurement

Chapter 5 Lesson 1

Student's Questions and Comments

FOR STUDENT USE ONLY

Student Name:

_____

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Assigned to

_____

Marked by

_____

Date received

_____

Summary

	Marks Earned	Total Possible Marks	Percent
Lesson 1		11	

Teacher's Comments:

_____

Teacher's Signature

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Lesson Assignment

This assignment includes short answer questions. Be sure to show all necessary work. You may ask for clarification from your teacher, but you will not be given the answer.

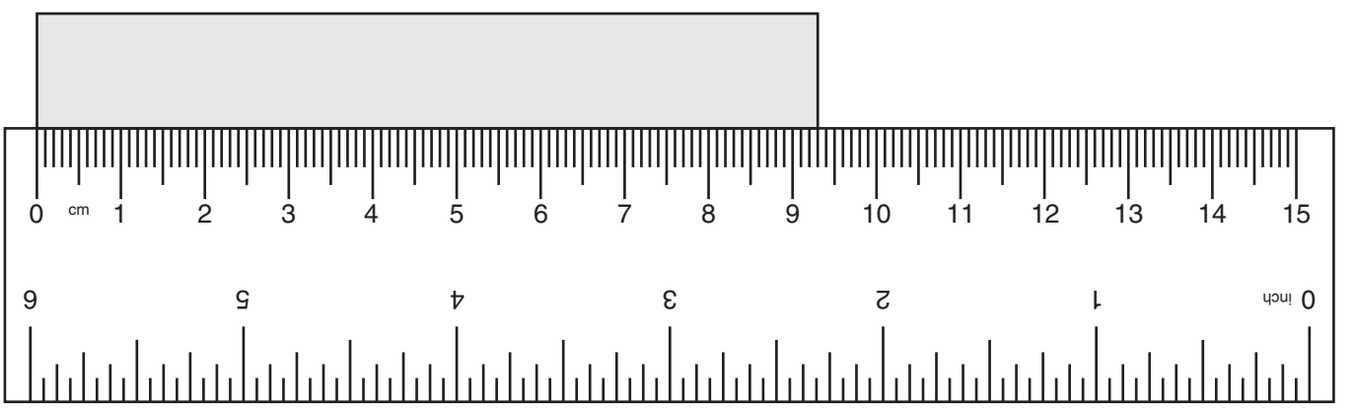
Lesson 1

(4) 1. Complete the following chart by placing a ✓ mark in the appropriate column to show which measurement system each unit belongs to.

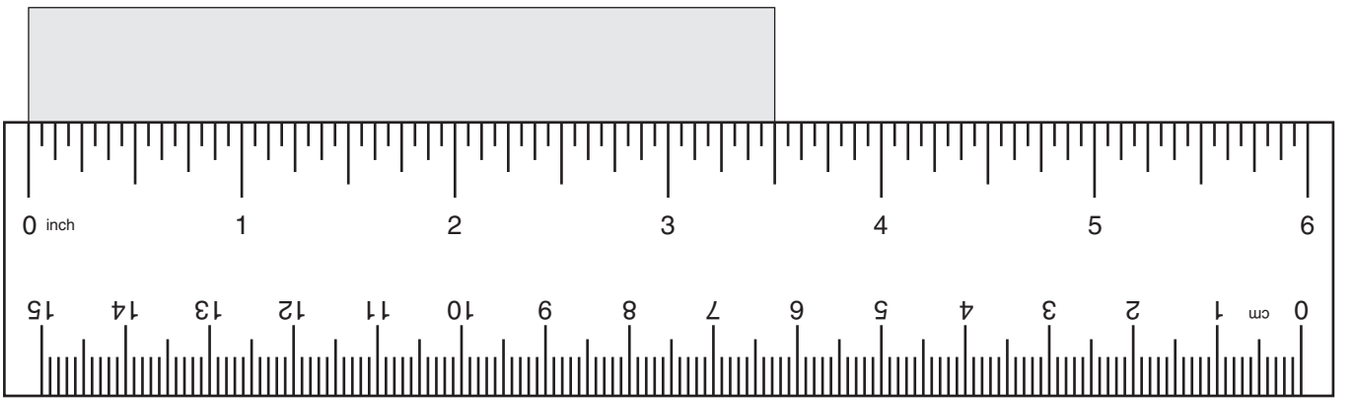
unit	SI	Imperial
millilitre (mL)		
pound (lb)		
degrees Celsius (°C)		
foot (ft)		
pint (pt)		
metre (m)		
gram (g)		
inch (in)		

2. State the measurement indicated on each ruler shown.

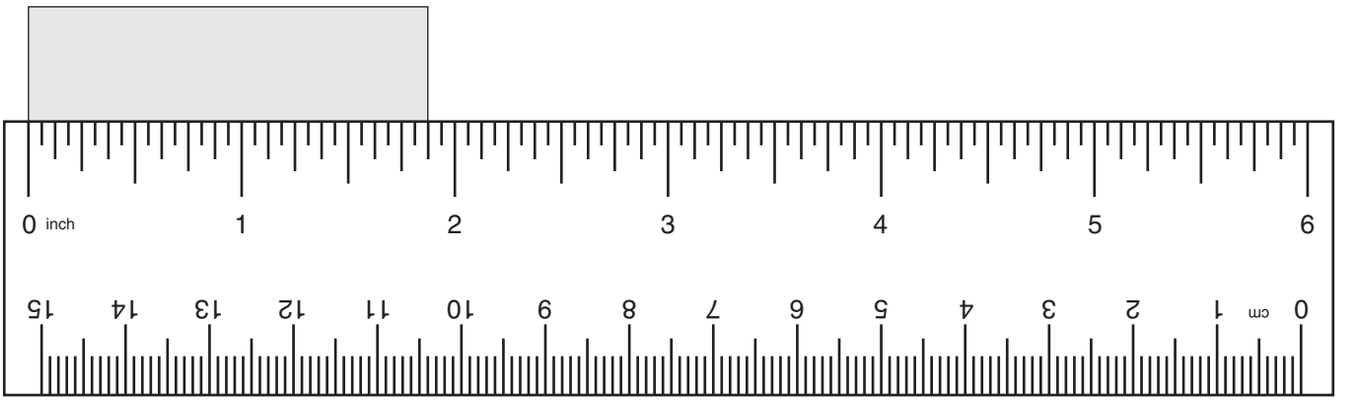
(1) a.



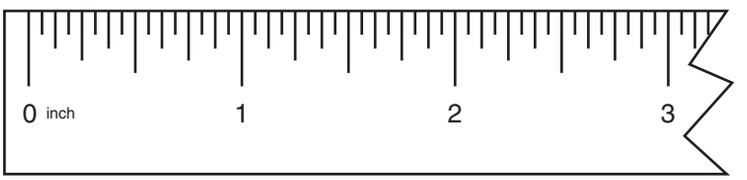
1 b.



1 c.

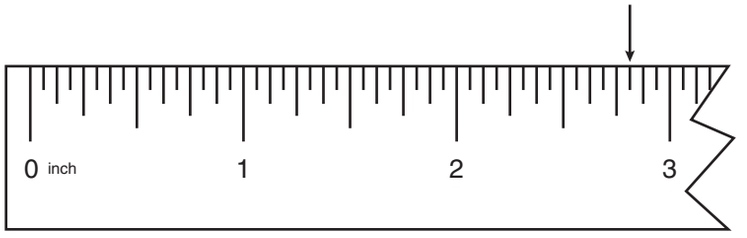


3. A piece of a measuring tape was found, as shown.



1 a. What is the size of the smallest increment shown?

(2) b. Explain how the measurement shown could be determined.



(1) c. What is the measurement shown in part b?

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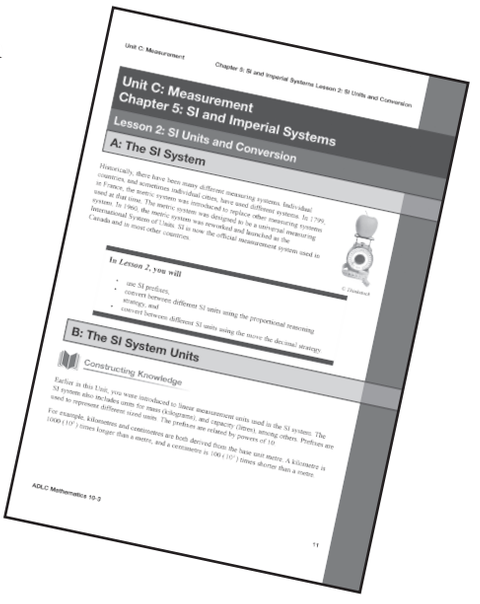
You have completed *Lesson 1 Assignment*.
Please return to the *Module* and continue your exploration with *Lesson 2*.


Unit C: Measurement

Chapter 5: SI and Imperial Systems Lesson 2: SI Units and Conversion

Unit C: Measurement
Chapter 5: SI and Imperial Systems
Lesson 2: SI Units and Conversion

A: The SI System

Historically, there have been many different measuring systems. Individual countries and sometimes individual cities, have used different systems. In 1799, in France, the metric system was introduced to replace other measuring systems used at that time. The metric system was designed to be a universal measuring system. In 1960, the metric system was reworked and launched as the International System of Units. SI is now the official measurement system used in Canada and in most other countries.

In *Lesson 2*, you will

- use SI prefixes,
- convert between different SI units using the proportional reasoning strategy, and
- convert between different SI units using the move the decimal strategy.

B: The SI System Units

Constructing Knowledge

Earlier in this Unit, you were introduced to linear measurement units used in the SI system. The SI system also includes units for mass (kilograms) and capacity (litres), among others. Prefixes are used to represent different sized units. The prefixes are related by powers of 10.

For example, kilometres and centimetres are both derived from the base unit metre. A kilometre is $1000 (10^3)$ times longer than a metre, and a centimetre is $100 (10^2)$ times shorter than a metre.

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