ALBERTA DISTANCE LEARNING CENTRE
Mathematics 10C

MAT1791

Workbook 1.2

Student's Questions and Comments

Summary

	Marks Earned	Total Possible Marks	Percent
1.2 Practice – II	**I have ____ /8 and ____ %.**		
Lesson 1.2 Assignment		9	

Teacher's Comments:

_____
Teacher's Signature

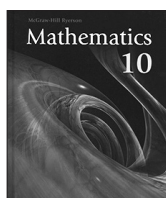**For Users of Alberta Distance Learning Centre Courseware**
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Mathematics 10
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Practice Assessment

The *Practice* section provides exercise questions and allows you to self-reflect on your conceptual understanding of the *Lesson* skills. You will mark your *Practice* work in each *Workbook* according to the following rubric.

Category	Strategy and Procedures	Response to Questions
	I have…	*I have…*
4	• used efficient and effective strategies to solve the problem(s)	• provided detailed explanations and followed directions appropriately to complete all questions
3	• used effective strategies to solve the problem(s)	• provided clear explanations and followed directions adequately to complete most questions
2	• used effective strategies inconsistently to solve the problem(s)	• provided incomplete explanations and followed some directions to complete a few questions
1	• used ineffective strategies to solve the problem(s)	• provided incomplete explanations and have not followed directions to complete some questions

Complete *Practice* exercises using your best work, showing all relevant steps needed to arrive at your solution. Refer to the *Module* to review lesson instructions. Contact your teacher for assistance or clarification as needed, or to investigate the topic further.

Check and correct your work using the solutions provided in *Appendix* in the *Module*.

Practice is worth 8 marks.

After you have assessed your work, reflect on your understanding of the concepts in the table provided at the end of each *Practice* section.

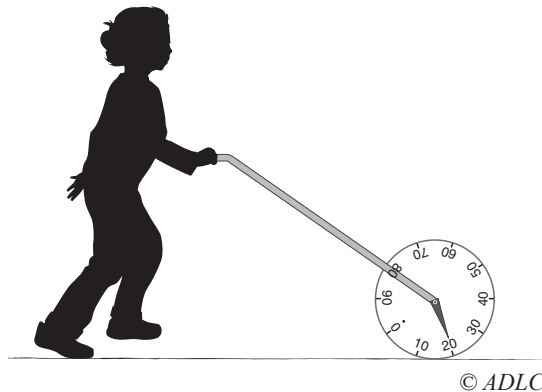## Lesson 1.2: Measuring Instruments

Complete the *Practice* below. When you have completed all the questions for *Lesson 1.2 Practice – II* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

 Practice – II

1.   A vernier calliper is much more precise than a ruler. That is, it is capable of taking much finer measurements. Describe a reason someone may choose to use a ruler instead of a vernier calliper if both tools are available.

     _____

     _____

     _____

     _____

2.   This diagram shows a child walking with a measuring instrument called a trundle wheel.
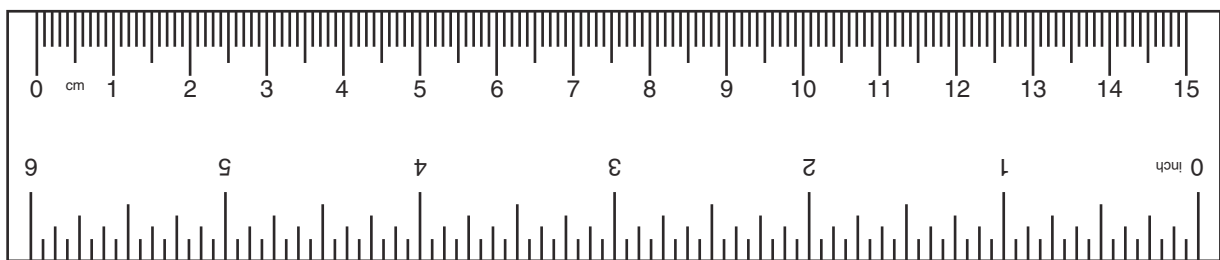

© ADLC

     a.   Explain how the trundle wheel measures a distance.

          _____

          _____

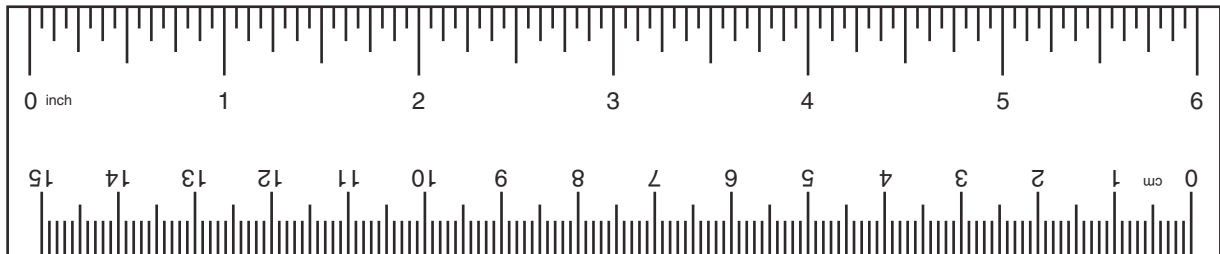b. There are numbers written on the trundle wheel. What unit do you expect these values represent?

_____

_____

_____

c. Describe a situation where a trundle wheel would make a good measuring instrument.

_____

_____

_____

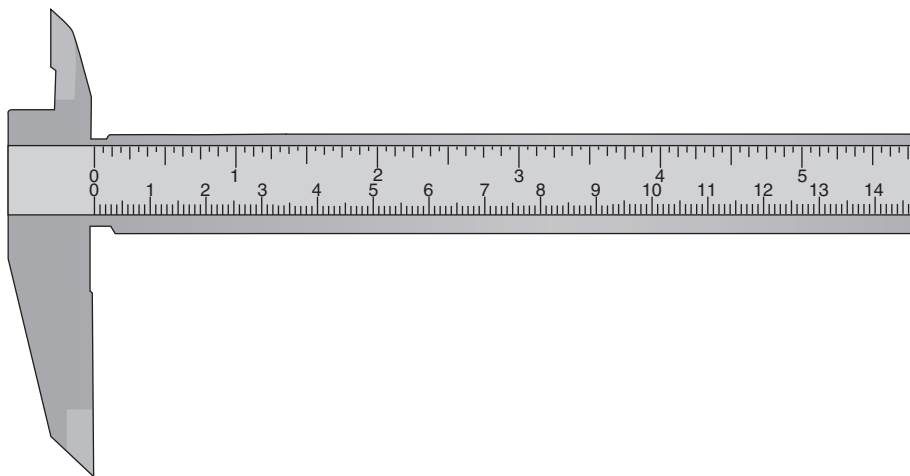3. Indicate each of the following measurements on the diagram provided.
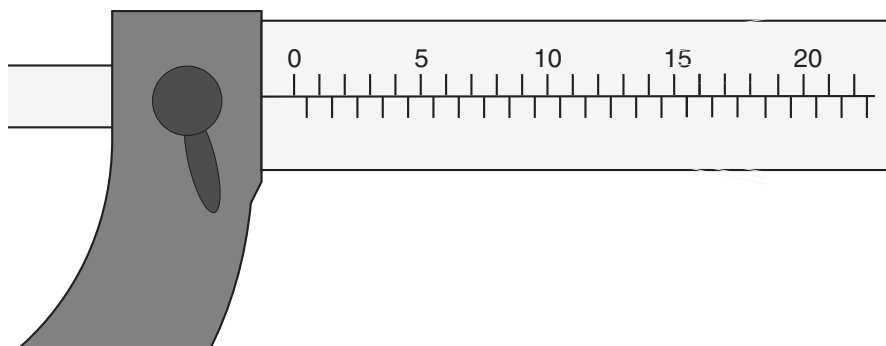
a. a metric ruler showing 5.4 cm

b. an imperial ruler showing $4\frac{11}{16}$ in

c. a vernier calliper showing 37.4 mm (Your sketch only needs to show where important lines will be.)

d. a micrometer showing 6.28 mm (Your sketch only needs to show where important lines will be.)

Mark your work for *Lesson 1.2 Practice – II* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on *Lesson 1.2 Practice – II* is _____.

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.

| Question Number	Got it!	Almost there…	Need to retry or ask for help.
1			
2			
3			
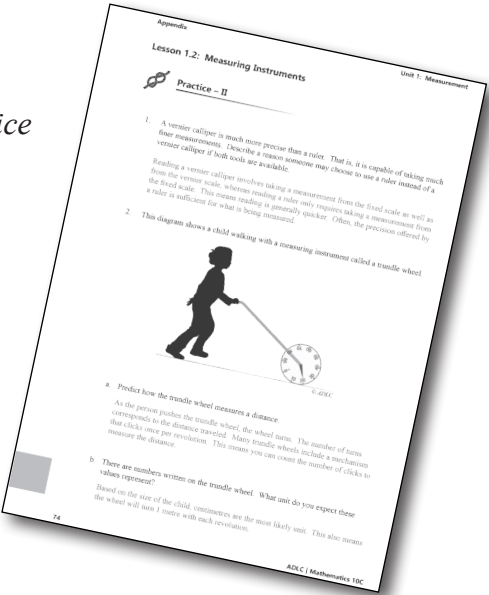
You may proceed to *Explore Your Understanding Assignment* on the next page of this *Workbook*.

Note: Before you complete *Explore Your Understanding* you may review your skills and get more practice by completing the following problems in *Mathematics 10*.

- Page 16, #3, 7, 8
- Page 29, #1a, 3a, 4

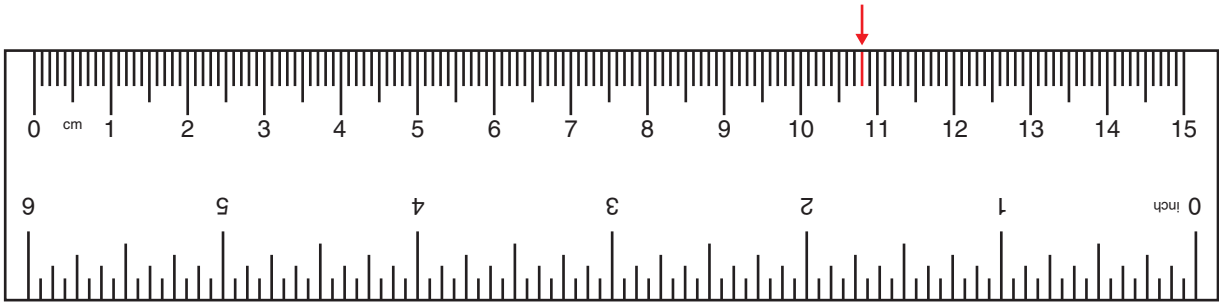Check your work in *Enhance Your Understanding*.
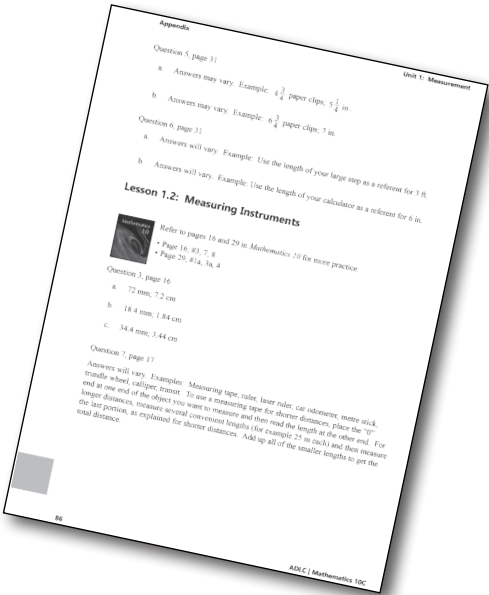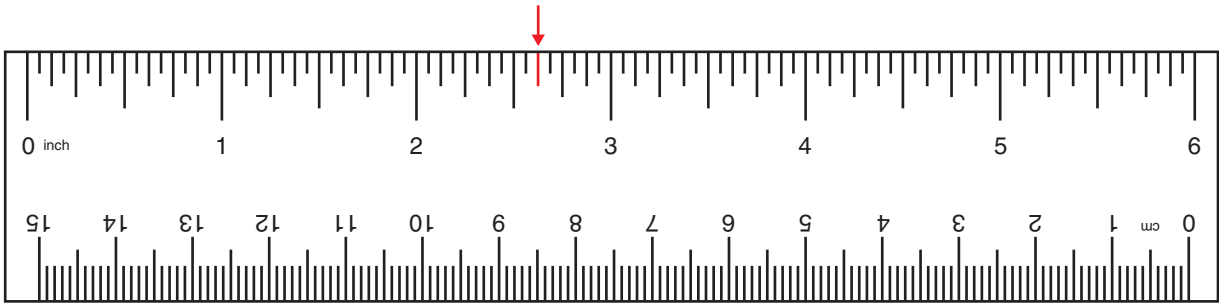
Lesson 1.2: Measuring Instruments

Explore Your Understanding Assignment

④ 1.   State the measurements shown in each of the following.

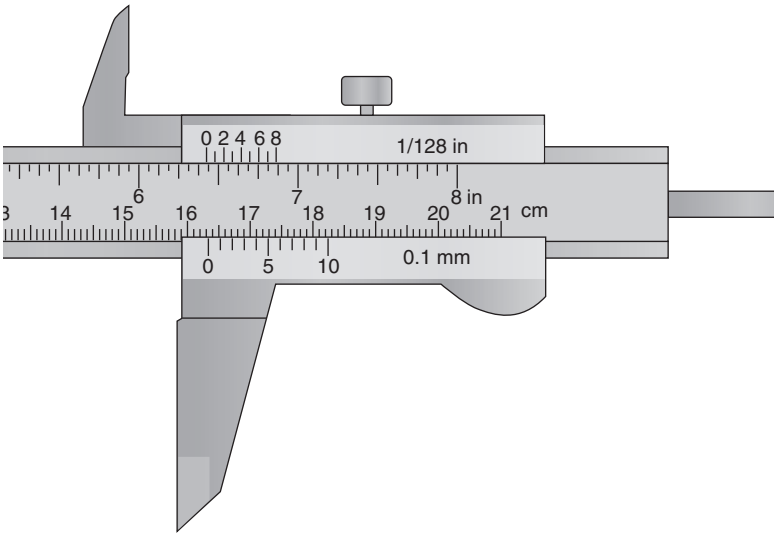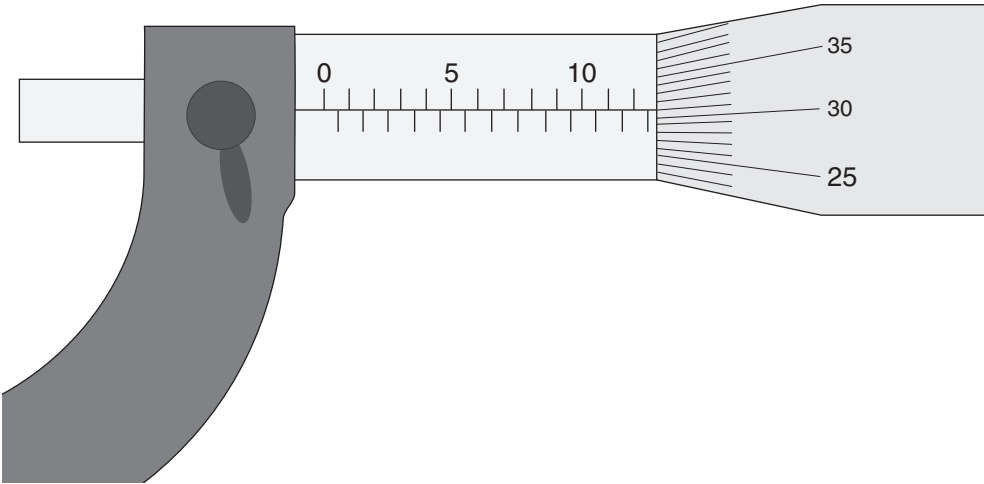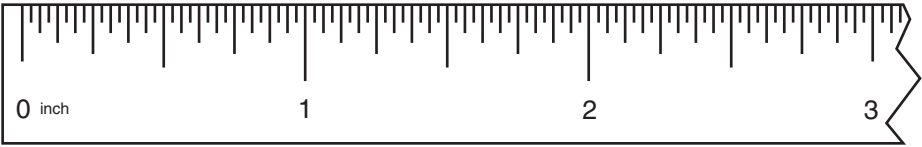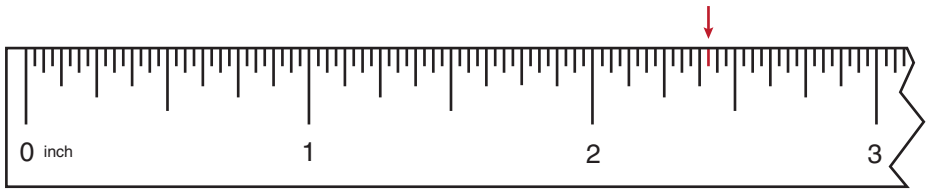a.

b.

c.

d.

2. Describe a strategy that could be used to accurately determine the circumference of a water bottle.

_____

_____

_____

_____

_____

3. Suppose the following measuring tape was found.

a. What is the size of the smallest increment shown on this tape?

_____

_____

_____

b. Explain how the measurement shown could be determined.

_____

_____

_____

_____

c. What is the measurement shown in part b?

/9