

ALBERTA DISTANCE LEARNING CENTRE

Mathematics 10-3

MAT1793

Unit C: Measurement

Chapter 6 Lesson 2

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 2		33	

Teacher's Comments:

Teacher's Signature

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Workbook 6

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4601 - 63 Avenue

Barrhead, Alberta Canada T7N 1P4

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Lesson Assignment

This assignment includes matching, fill in the blank, and 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 2

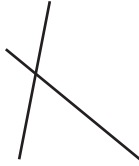

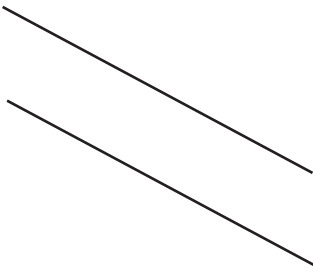
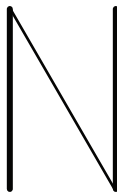
5

1. Match the correct term with its definition.

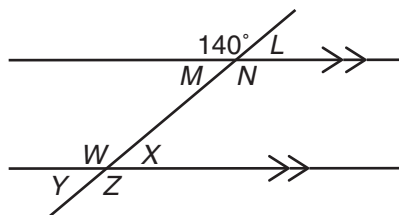
- | | | |
|-------------------------------|-------|--|
| a. transversal | _____ | Lines that cross each other at exactly 90° . |
| b. complementary angles | _____ | Two angles sitting next to each other. |
| c. alternate exterior angles | _____ | Two angle measures that add up to 90° . |
| d. perpendicular lines | _____ | A line that cuts across two or more lines. |
| e. parallel lines | _____ | Two angle measures that add up to 180° . |
| f. alternate interior angles | _____ | A pair of angles on the same side of a transversal, and on the same sides of two parallel lines. |
| g. vertically opposite angles | _____ | |
| h. supplementary angles | _____ | A pair of angles, opposite each other where two lines intersect. |
| i. corresponding angles | _____ | Lines that never cross. |
| j. adjacent angles | _____ | A pair of angles on opposite sides of a transversal, and on the inside of two parallel lines. |
| | _____ | A pair of angles on opposite sides of a transversal, and on the outside of two parallel lines. |

②

2. Based on their appearances, label the following sets of lines as perpendicular, parallel, or neither.

Lines	Parallel, Perpendicular, or Neither
	
	
	
	

- ⑥ 3. Use the diagram to answer the following questions.

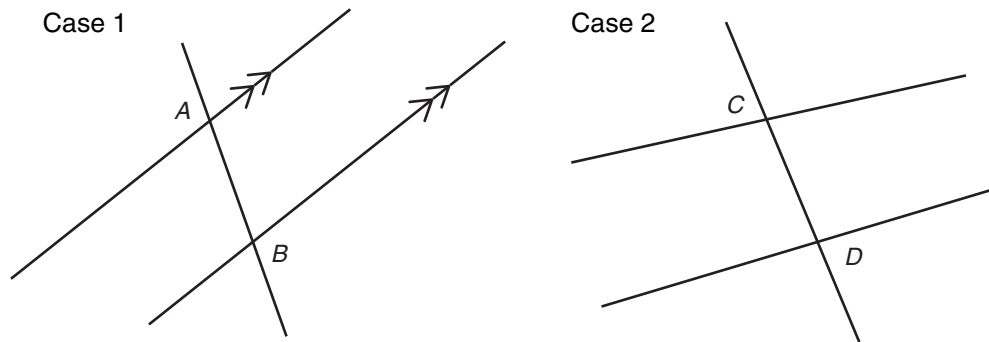


- $\angle N$ and 140° are _____ angles.
- $\angle W$ and 140° are _____ angles.
- $\angle Z$ and 140° are _____ angles.
- $\angle L$ and 140° are _____ angles.
- The measure of $\angle M$ is _____.
- The measure of $\angle X$ is _____.

- ⑥ 4. Complete the following table.

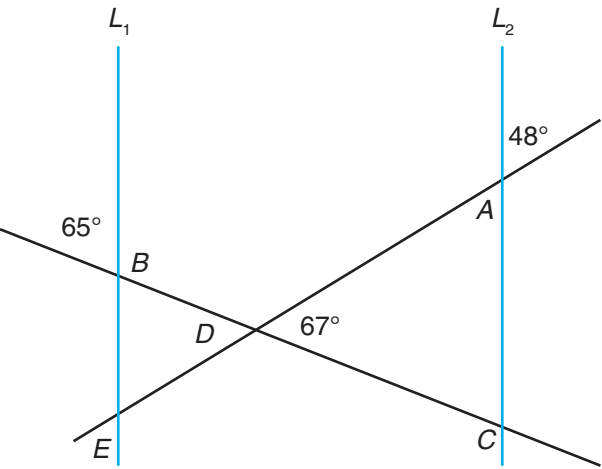
Angle Measure	Complementary Angle Measure	Supplementary Angle Measure
45°		
	70°	
		93°

5. The diagram illustrates two different examples of a transversal cutting through two lines.



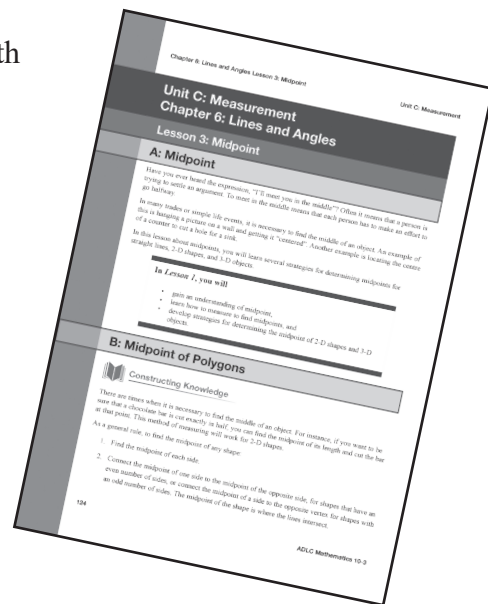
- ① a. In Case 1, $\angle A$ and $\angle B$ are
- ① b. Discuss the size of $\angle A$ and $\angle B$.
- ② c. In Case 2, are $\angle C$ and $\angle D$ the same kind of angles as $\angle A$ and $\angle B$, from Case 1? Explain.

- 10
6. Determine the measure of angles A to E in the diagram provided. Provide an explanation of how each angle measure is determined, using appropriate terminology and properties. Only L_1 and L_2 are parallel lines.



Angle	Transversal rules used	Angle Measure
A		
B		
C		
D		
E		

You have completed *Lesson 2 Assignment*.
Please return to the *Module* and continue your exploration with *Lesson 3*.



ADLC

Alberta Distance
Learning Centre

adlc.ca
1-866-774-5333
info@adlc.ca

Alberta Distance Learning Centre
Box 4000 4601 – 63 Avenue
Barrhead, Alberta T7N 1P4

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