



BALTIMORE LEADERSHIP SCHOOL

for young women

8TH GRADE MATH TEST

NAME: _____

COURSE: 8TH GRADE MATH

TEACHER: _____

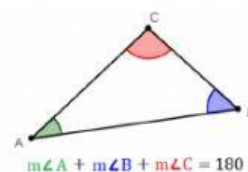
DATE: _____

Test I: Multiple Choice (1 point each)

Instruction: Encircle the letter of your answer.

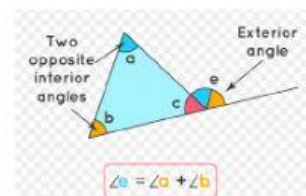
1. Which of the following states the triangle sum theorem?

- a. The sum of interior angles of a triangle is 180 degrees.
- b. The sum of exterior angles equals the sum of remote interior angles.
- c. The sum of two angles equals 180 degrees.
- d. The sum of two angles equals 90 degrees.



2. Which of the following states the exterior angle theorem?

- a. The sum of interior angles of a triangle is 180 degrees.
- b. The sum of exterior angles equals the sum of remote interior angles.
- c. The sum of two angles equals 180 degrees.
- d. The sum of two angles equals 90 degrees.

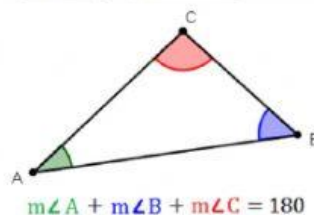
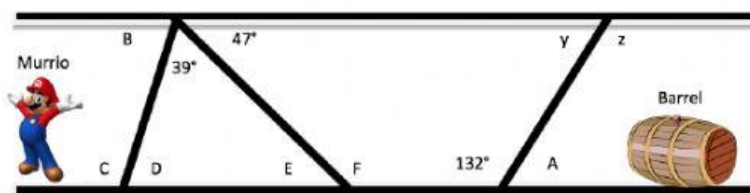


3. Which of the following states the supplementary angles?

- a. The sum of interior angles of a triangle is 180 degrees.
- b. The sum of exterior angles equals the sum of remote interior angles.
- c. The sum of two angles equals 180 degrees.
- d. The sum of two angles equals 90 degrees.



For question 4, refer to the figure below.



4. What is the measure of angle B as shown in the figure above?

- a. 39°
- b. 94°
- c. 132°
- d. 47°

For question 5, refer to the image below.

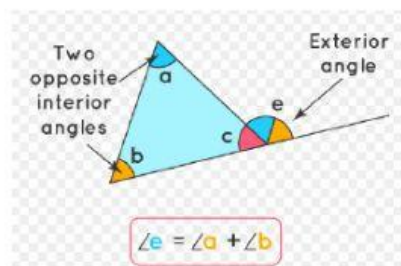
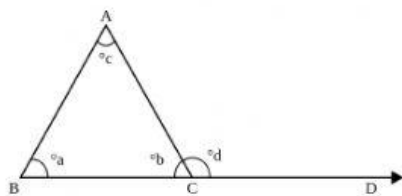


5. What is the angle measurement of $\angle BDC$?

- a) 50°
- b) 55°
- c) 60°
- d) I cannot find it with the information provided.

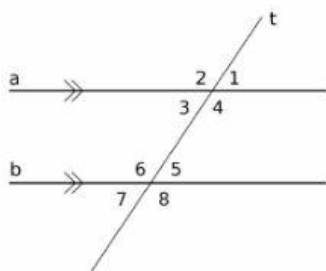
Test II: Short Answer (2 points each)

For questions 1 to 2, refer to the figure below:

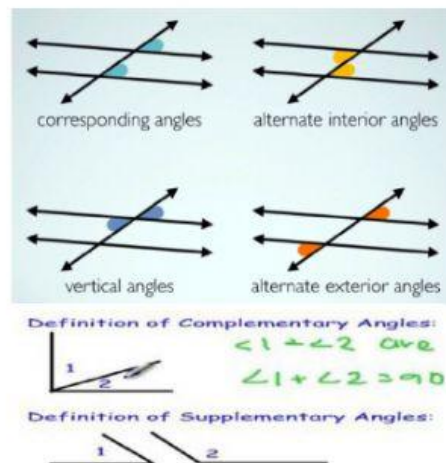


- If angle a is 62° , and angle d is 125° , what is the measure of angle c? _____ $^\circ$
- If the two remote interior angles measure 60 degrees each, what is the measure of an exterior angle d? _____ $^\circ$

For questions 3 to 5, refer to the figure below.

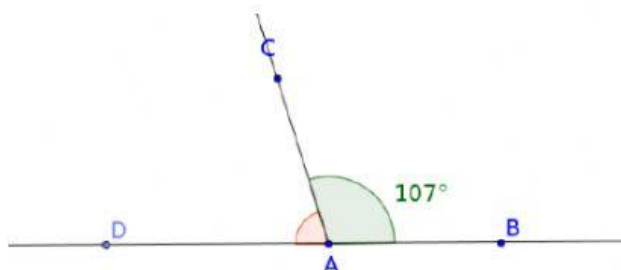


- How is $\angle 2$ related to $\angle 3$? _____



4. What is the relationship between $\angle 5$ and $\angle 7$? _____°
5. If $m\angle 2 = 110$ degrees, find the measure of $\angle 1$. _____°

For question 6, refer to the figure below.

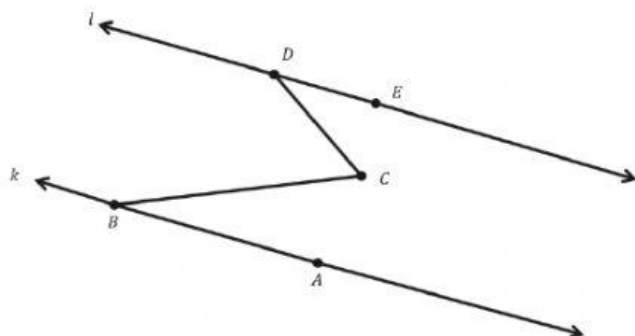


6. Find the measure of $\angle DAC$. _____°

Test III: Explanation (10 points each)

1. Use the diagram to answer the question below. (10 points)

$k \parallel l$



Line k is parallel to line l . $m\angle EDC = 41^\circ$ and $m\angle ABC = 32^\circ$. Find the $m\angle BCD$. Explain in detail how you know you are correct. Add additional lines and points as needed for your explanation.
