Chapter 6	Name:
	Date:

1 Lana is entering a poster contest. She wants her poster to be a parallelogram with all sides congruent, but no right angles. Which figure should she draw?



- 2 Which quadrilateral has only one pair of parallel sides?
  - A rhombus
  - B rectangle
  - C square
  - D trapezoid
- 3 Which could NOT be the measures of the angles of a quadrilateral?
  - A 100°, 35°, 90°, 135°
  - B 135°, 70°, 105°, 50°
  - C 80°, 130°, 110°, 40°
  - D 40°, 120°, 30°, 210°

4 Classify the quadrilateral.



- A right triangle
- B trapezoid
- C parallelogram
- D scalene
- 5 Uri's bicycle tire has a radius of 21 centimeters. What is the diameter of the tire?



- A 10.5 centimeters
- B 21 centimeters
- C 35 centimeters
- D 42 centimeters
- 6 Which word completes the sentence?

A <u>?</u> is any line segment that connects two points on the circle and passes through the center.

- A diameter
- B radius
- C perpendicular
- D circle

7 Ken's hoola hoop has a radius of 30 centimeters. What is the diameter of the hoop?

- A 15 centimeters
- B 30 centimeters
- C 60 centimeters
- D 90 centimeters

8 Which rule describes how many faces a prism has when the shape of its base has *n* sides?

Type of Prism	Number of Sides, <i>n</i>	Faces of Prism
Triangular	3	5
Rectanglar	4	6
Pentagonal	5	7
Hexagonal	6	8



- B n-2 C n+2
- D *n*÷2
- 9 Tiles can be used to make a gray L in a white square tile pattern of any size as shown in the diagram. How many white tiles would be used in a square with a gray L that uses 13 tiles?

Number of tiles in gray L		5	7	9	11	13	
Number of white tiles		4	9	16			
А	36						
В	33						
С	30						
D	25						

10 Here is a map of the streets in Anytown.



Which two streets on the map above appear to be parallel?

- A Oak Street and Palm Way
- B Palm Way and Walnut Avenue
- C Oak Street and Maple Street
- D Oak Street and Walnut Avenue
- 11 What type of lines are shown?



- A rays
- B intersecting
- C skew
- D parallel

12 Jim's map shows three parallel streets and one perpendicular street. Which shows the arrangement of the streets on Jim's map?



- 13 Which is the measure of an obtuse angle?
  - A 180°
  - B 89°
  - C 90°
  - D 93°
- 14 Classify an angle with a measure of 180°.
  - A Acute
  - B Right
  - C Obtuse
  - D Straight

15 Which is NOT an obtuse angle?



- 16 Which is the measure of a right angle?
  - A 120°
  - B 91°
  - C 90°
  - D 83°

17 What is the measure of  $\angle RSQ$ ?



- C 90°
- D 146°
- 18 What is the measure of an angle complementary to a 26° angle?
  - A 156°
  - B 90°
  - C 64°
  - D 26°

## Chapter 6

19 What is the value of *x* in the figure below?



20 What is the measure of the unknown angle?



- A 24°
- B 34°
- C 180°
- D 204°