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$\qquad$

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?

A


B


C


D


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 $100^{\circ}, 35^{\circ}, 90^{\circ}, 135^{\circ}$
B $135^{\circ}, 70^{\circ}, 105^{\circ}, 50^{\circ}$
C $80^{\circ}, 130^{\circ}, 110^{\circ}, 40^{\circ}$
D $40^{\circ}, 120^{\circ}, 30^{\circ}, 210^{\circ}$

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 _ ? 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 <br> Prism | Number of <br> Sides, $\boldsymbol{n}$ | Faces of <br> Prism |
| :--- | :---: | :---: |
| Triangular | 3 | 5 |
| Rectanglar | 4 | 6 |
| Pentagonal | 5 | 7 |
| Hexagonal | 6 | 8 |



A $n \times 2$
B $n-2$
C $n+2$
D $n \div 2$

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 |  |  |



A 36
B 33
C 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?

A


B


C


D


13 Which is the measure of an obtuse angle?
A $180^{\circ}$
B $89^{\circ}$
C $90^{\circ}$
D $93^{\circ}$

14 Classify an angle with a measure of $180^{\circ}$.
A Acute
B Right
C Obtuse
D Straight

15 Which is NOT an obtuse angle?

A

B

C


16 Which is the measure of a right angle?
A $120^{\circ}$
B $91^{\circ}$
C $90^{\circ}$
D $83^{\circ}$

17 What is the measure of $\angle \mathrm{RSQ}$ ?


A $34^{\circ}$
B $56^{\circ}$
C $90^{\circ}$
D $146^{\circ}$

18 What is the measure of an angle complementary to a $26^{\circ}$ angle?
A $156^{\circ}$
B $90^{\circ}$
C $64^{\circ}$
D $26^{\circ}$

Chapter 6

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


A $8^{\circ}$
B $18^{\circ}$
C 28응
D $108^{\circ}$

20 What is the measure of the unknown angle?


A $24^{\circ}$
B $34^{\circ}$
C $180^{\circ}$
D $204^{\circ}$

