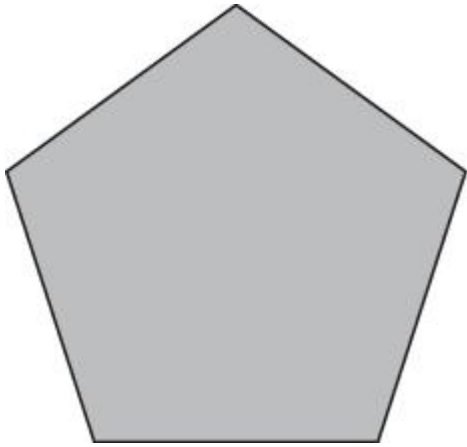


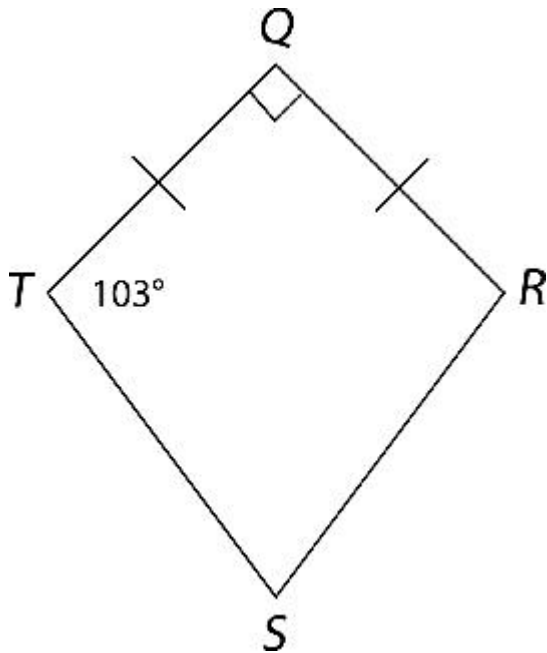
Directions: Please choose the best answer choice for each of the following questions.

1. What is the exterior angle measure of the shown regular polygon?



- A. 360 degrees
- B. 108 degrees
- C. 72 degrees
- D. 18 degrees

2. What is the measure of $\angle S$ in the kite below?

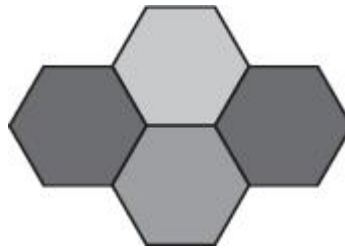


- A. 64°
- B. 90°
- C. 103°
- D. 167°

3. What is the sum of the interior angles of a regular octagon?

- A. 180°
- B. 360°
- C. $1,080^\circ$
- D. $1,440^\circ$

4. The floor tiles in a restaurant are in the shape of regular hexagons.

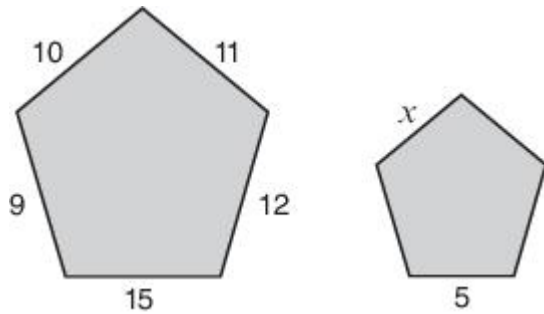


What is the measure of each interior angle of a hexagonal tile?

- A. 60°
 - B. 120°
 - C. 360°
 - D. 720°
5. If the exterior angle of a triangle measures 46 degrees, then what must be the sum of the two remote interior angles?
- A. 44 degrees
 - B. 46 degrees
 - C. 134 degrees
 - D. 314 degrees
6. What is necessary in order to call two quadrilaterals congruent?
- A. Their sides must be equal in length.
 - B. Their angles must be equal in size.
 - C. Their sides must be equal in length and their angles must be equal in size.
 - D. Their sides and angles must be proportional.

Go on to the next page »

7. The figures below are similar. Find the value of x in the second figure.



- A. 3
 B. $3\frac{1}{3}$
 C. $3\frac{2}{3}$
 D. 4
8. This diagram shows a portion of a city street map.

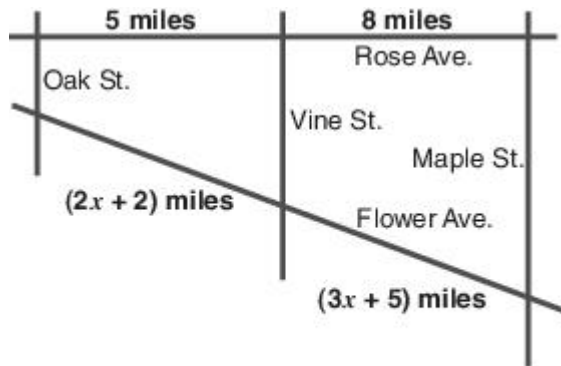


Diagram is not drawn to scale.

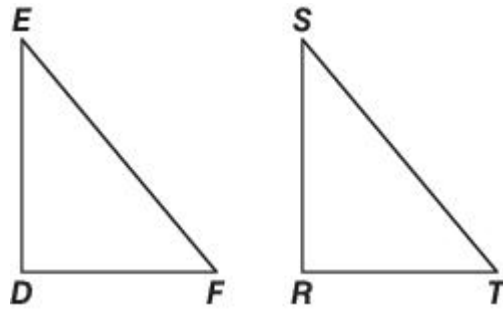
If Oak, Vine, and Maple Streets are parallel to each other, what is the value of x ?

- A. 7
 B. 9
 C. 20
 D. 22
9. Given: $\triangle ABC \cong \triangle DEF$ and $\triangle ABC \cong \triangle QRS$.

Which of the statements below is correct?

- A. $\overline{AB} \cong \overline{BC}$
 B. $\overline{BC} \cong \overline{QR}$
 C. $\overline{QS} \cong \overline{EF}$
 D. $\overline{DF} \cong \overline{QS}$

10. Triangle DEF is congruent to triangle RST .



If $m\angle D = 90^\circ$ and $m\angle E = 40^\circ$, what is $m\angle T$?

- A. 40°
 B. 50°
 C. 90°
 D. 130°

Stop! You have finished this exam.