

BASIC GEOMETRIC CONSTRUCTIONS / REGULAR POLYGONS / CIRCLE / SOLVING PROBLEMS INVOLVING SIDES AND ANGLES OF POLYGONS

Name: _____ Score: _____

Grade Level: _____ Name of School: _____

Direction: Read each item carefully and write the letter of the correct answer.

1. If the first three angles of a quadrilateral measures 54° , 86° , and 70° respectively. What is the measure of the fourth angle?

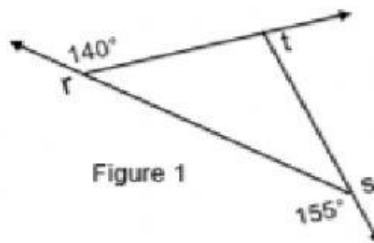
- A. 150° B. 160° C. 170° D. 180°

2. What is the sum of the measures of the interior angles of a coin, which is in the shape of an octagon?

- A. 880° B. 980° C. $1,080^\circ$ D. $1,180^\circ$

3. In Figure 1, $m\angle r = 140^\circ$ and $m\angle s = 155^\circ$. Find $m\angle t$.

- a. 25°
b. 40°
c. 65°
d. 90°



4. What is the measure of each interior angle of a regular dodecagon?

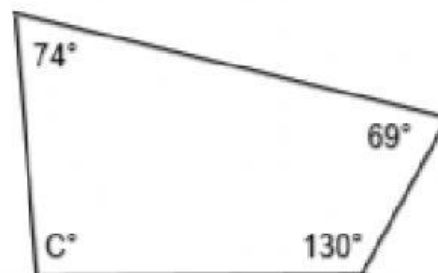
- A. 120° B. 130° C. 140° D. 150°

5. If the measure of each interior angle of a regular polygon is 108° , which of the following is the measure of its exterior angles?

- A. 36° B. 72° C. 108° D. 144°

6. In Figure 2, compute for C.

- a. 87°
b. 88°
c. 89°
d. 90°



7. How many sides does the polygon have if the sum of each interior angles is $1,980^\circ$?
A. 11 B. 12 C. 13 D. 14
8. If three of the angles of a pentagon measure 108° , 132° and 90° respectively, which of the following is the measure of the remaining angles if they are equal?
A. 105° B. 110° C. 120° D. 125°
9. If each interior angle of a regular polygon measures 120° , what is the total number of sides in the polygon?
A. 4 B. 6 C. 7 D. 8
10. Which of the following could NOT represent the measure of an exterior angle of a regular polygon?
A. 15° B. 27° C. 45° D. 72°