

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

Name: _____ Score: _____
Grade Level: _____ Name of School: _____

Direction: Choose the letter of the correct answer.

1. If the measures of the first two angles of a triangle are 44° and 95° respectively, what is the measure of the third angle?

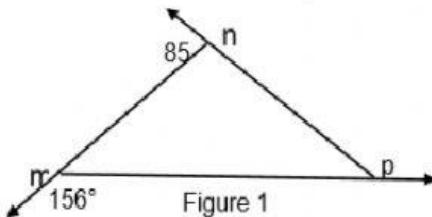
A. 21° B. 31° C. 41° D. 51°

2. What is the sum of the measures of the interior angles of a tile, which is in the shape of a pentagon?

A. 540° B. 640° C. 740° D. 480°

3. In Figure 1, $m\angle m = 156^\circ$ and $m\angle n = 85^\circ$. Find $m\angle p$.

a. 24°
b. 95°
c. 119°
d. 241°



4. What is the measure of each interior angles of a regular decagon?

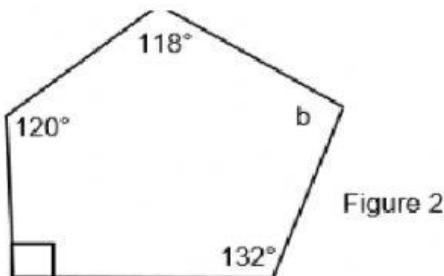
A. 144° B. 154° C. 164° D. 174°

5. If the measure of each interior angles of a regular polygon is 120° , which of the following is the measure of each exterior angles?

A. 30° B. 40° C. 50° D. 60°

6. In Figure 2, find the value of b.

a. 70°
b. 80°
c. 90°
d. 100°



7. How many sides does the polygon have if the sum of each interior angle is 900° ?

A. 5 B. 6 C. 7 D. 8

8. If four angles of a hexagon measure 72° , 157° , 85° , and 124° respectively, what is the measure of the remaining angles if they are congruent?

A. 121° B. 131° C. 141° D. 151°

9. If each interior angle of a regular polygon measures 170° , how many sides does the polygon have?

A. 18 B. 24 C. 30 D. 30

10. If the sum of the measures of four exterior angles of a pentagon is 300° , what is the measure of the fifth exterior angle?

A. 30° B. 40° C. 50° D. 60°