

GEOMETRY

Quiz # 6

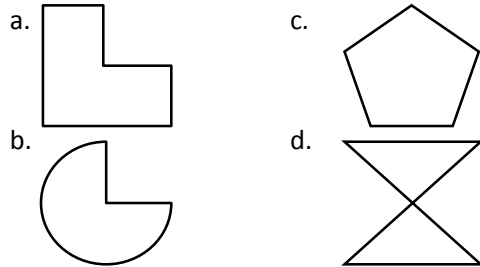
Name: _____ Date: _____ Score: _____

I. MULTIPLE CHOICES: Encircle the letter of the best answer.

1. It is a closed figure formed by three or more segments that intersect in pairs at their endpoints.

- a. angle c. polygon
b. quadrilateral d. segment

2. Which of the following is a convex polygon?



3. If $\triangle ILY$ is an equilateral triangle and $IL = 3x+10$ and $LY = 5x-8$, then what is the length of each side of $\triangle ILY$?

- a. 14 c. 37
b. 9 d. 27

4. A 7-sided polygon is also known as _____

- a. nonagon c. heptagon
b. hexagon d. pentagon

5. It is the side opposite to the right angle of any right triangle.

- a. leg c. hypotenuse
b. base d. diagonal

II. Classify each triangle as acute, obtuse, equiangular or right.

1. 2.
3. 4.

III. Classify each triangle as equilateral, isosceles or scalene.

1. 2.
3. 4.

IV. IDENTIFICATION: Write the correct term being described by each statement.

- _____ 1. They are the two perpendicular sides that make the right angle of a right triangle.
- _____ 2. It is a polygon with eleven sides.
- _____ 3. It is a type of polygon which extensions of the sides pass through the interior part of the polygon.
- _____ 4. It is a triangle with three congruent sides.
- _____ 5. It is a triangle with no congruent sides.
- _____ 6. They are the two congruent angles of an isosceles triangle.
- _____ 7. It is a segment from one vertex of a triangle to the midpoint of its opposite side.
- _____ 8. It is a triangle with three acute angles.
- _____ 9. It is a polygon with congruent sides.
- _____ 10. It is a segment from one vertex of a triangle perpendicular to its opposite side.

V. Find x and the length of each side.

- A.
B.