

# GEOMETRY

## Quiz # 7

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

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

1. It is a quadrilateral with exactly one pair of parallel sides.

- a. parallelogram
- b. trapezium
- c. trapezoid
- d. rectangle

2. Which of the following is NOT TRUE about parallelogram?

- a. its opposite angles are always congruent
- b. its interior angles have a sum of  $360^\circ$
- c. its non-consecutive vertices form a diagonal
- d. its consecutive sides are parallel

3. If pt. A is on  $\odot K$ , then AK is called \_\_\_\_\_.

- a. chord
- b. radius
- c. diameter
- d. tangent

4. Which of the following does not belong to the group?

- a.
- c.

- b.
- d.

5. What is the value of  $y$  in the figure below?

- a. 8
- b. 3
- c. 11
- d. 15

**II. Write whether each statement is ALWAYS, SOMETIMES or NEVER true.**

- \_\_\_\_\_ 1. Quadrilateral is a polygon.
- \_\_\_\_\_ 2. Rhombus is parallelogram.
- \_\_\_\_\_ 3. Parallelogram is a rhombus.
- \_\_\_\_\_ 4. Rectangle is a square.
- \_\_\_\_\_ 5. Square is rectangle.
- \_\_\_\_\_ 6. Diameter is a chord.
- \_\_\_\_\_ 7. Chord is a diameter.
- \_\_\_\_\_ 8. Rectangle is a parallelogram.
- \_\_\_\_\_ 9. Parallelogram is a rhombus.
- \_\_\_\_\_ 10. Secant is a tangent.

**III. Find the value of each variable in each parallelogram below.**

- 1. 2.

- 3. 4.

**IV. Answer each question completely.**

1. What is the sum of the measures of interior angles of a twenty-five sided polygon?

2. Find the number of sides of a polygon which sum of the measures of interior angles is  $6120^\circ$ .

3. If the sum of the measures of interior angles of a regular polygon is  $2520^\circ$ , then what is the measure of each of its interior angles?

**V. Use the figure below to answer #s 1-7.**

1. all radii
2. all chords
3. all diameters
4. all tangent line/s
5. all secant/s
6. A radius that is not a part of diameter.
7. Two chords that are not diameters.

**VI. The diameters of  $\odot L$  and  $\odot M$  are 20 and 13 units, respectively, and  $QR = 4$ . Find each.**

1.  $LQ =$

2.  $RM =$