

## GEOMETRIC FIGURES

*Fill in the gaps*

- 1 If two parallel lines are cut by a third line, the \_\_\_\_\_ angles are equal
- 2 If two parallel lines are cut by a third line, the corresponding angles are \_\_\_\_\_
- 3 The sum of the interior angles of a triangle is \_\_\_\_\_.
- 4 When two lines intersect, \_\_\_\_\_ angles are equal
- 5 The sum of two acute angles in a right triangle is \_\_\_\_\_
- 6 The sum of the interior angles of a polygon can be found by drawing all diagonals of the polygon from one vertex and multiplying the number of triangles formed by \_\_\_\_\_
- 7 In any right triangle,  $a^2 + b^2 = c^2$ , where  $c$  is the \_\_\_\_\_ side and  $a$  and  $b$  are the lengths of the two \_\_\_\_\_ sides.
- 8 In any equilateral triangle all sides are \_\_\_\_\_ and all angles are \_\_\_\_\_
- 9 In an isosceles triangle, angles opposite equal sides are \_\_\_\_\_
- 10 In any triangle, the longest side is opposite the largest \_\_\_\_\_ and the shortest side is opposite the smallest \_\_\_\_\_.
- 11 Two polygons are \_\_\_\_\_ if the lengths of their corresponding sides are the same ratio and their corresponding angles are equal.
- 12 Area of a triangle is  $\frac{? \cdot ?}{2}$
- 13 The number of degrees of arc in a circle is \_\_\_\_\_
- 14 The measure in degrees of a straight angle is \_\_\_\_\_
- 15 What are the special properties of isosceles triangle?
- 16 What are the special properties of parallel lines?