Chapter 9
Math 7
Class Notes

Perimeters of Polygons
Perimeters of Regular Polygons

Vocabulary

Geometry
- The study of points, lines, angles, surfaces, and solids

Parallel
- Lines that are always the same distance apart; parallel lines never meet

Polygon
- A closed, many-sided figure that is made up of line segments

Quadrilateral
- A polygon with four sides

Rectangle
- A four-sided polygon with four right angles and the opposite sides equal

Rhombus
- A four-sided polygon with two pairs of parallel sides having the same length

Regular Polygon
- A polygon in which each side and each angle has the same measure

Scalene Triangle
- A triangle with no equal sides

Isosceles Triangle
- A triangle with two equal sides

Equilateral Triangle
- A triangle will all three sides equal

Perimeter
- A measure of the distance around a figure or shape
- ADD ALL SIDES

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EXAMPLES

Make sure to show the formula used and each step to receive full credit.
Label, label, label

1. Find the perimeter of a quadrilateral with sides measuring 3 inches, 4 inches, 5 inches, and 6 inches.

   P = a + b + c + d
   P = (3) + (4) + (5) + (6)
   P = 18 inches

   ** IMPORTANT**
   Notice in this example that 4 different variables are used, this shows that there are four different numbers being substituted in.

2. Find the perimeter of a square with sides measuring 6 centimeters. (HINT: Square has 4 equal sides)

P = s + s + s + s	P = 4s
P = (6) + (6) +(6) +(6)	P = 4(6)
P = 24 centimeters	P = 24 centimeters

IMPORTANT

1. When all sides are equal, the same variable is used
2. Two different ways of doing the problem,
   a. add up the sides
   b. multiply by four as a short-cut

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