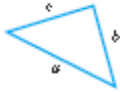


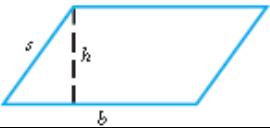
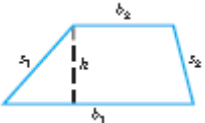


## Geometry: Perimeter and Circumference

### Vocabulary

Polygon	A simple closed geometric figure composed of three or more line segments
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TYPE	SIDES	FIGURE	<b>Perimeter:</b> The distance around a polygon. Usually designated with the letter $P$
<b>Triangle</b>	3		$P = a + b + c$
<b>Rectangle</b>	4		$P = 2l + 2w$
<b>Square</b>	4 equal sides		$P = 4s$
<b>Parallelogram</b>	4 sides with opposite sides parallel		$P = 2s + 2b$
<b>Trapezoid</b>	4 sides with exactly one pair of opposite sides is parallel		$P = s_1 + s_2 + b_1 + b_2$

Other terms:

Pentagon – a 5-sided polygon

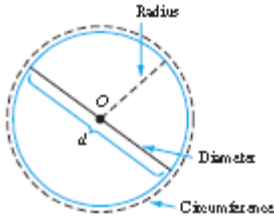
Hexagon – a 6-sided polygon

Decagon – a 10-sided polygon

TRY:

If one side of an octagon (an 8-sided regular polygon – meaning each side is the same size) is 5 ft, what is the perimeter?

If the three sides of a triangle measure 9", 8", and 14", what is the perimeter?

<p><b>Circle</b> – the perimeter is called a circumference; the diameter is a line segment that stretches from one side of the circle to the other passing through the center of the circle; the radius is the distance from the center of the circle to a point on the circle.</p>		<p><b>Circumference</b> <math>C = 2\pi r</math> or <math>C = \pi d</math></p>
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TRY:

What is the circumference of a circle with diameter of 12"? Use 3.14 for  $\pi$ .