
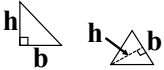
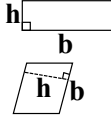
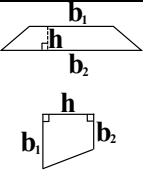
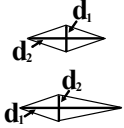
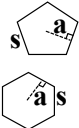


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
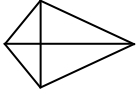


2-D Area Formulas

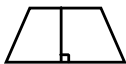

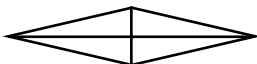

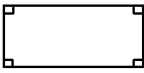


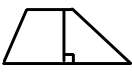

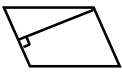
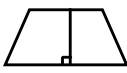
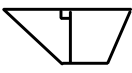
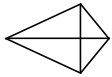


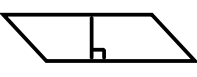
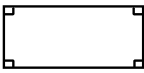


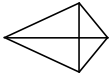
In this unit, we're going to be determining two- and three-dimensional area and volume. The truth about this unit is that it is entirely about plugging numbers into a formula. The most important and often most difficult part of this process, though, is knowing which formula to use for which figure. Today, we'll focus on the formulas you'll need to determine the **area** and **perimeter** of **six two-dimensional figures**.

Below is a table of the formulas you must memorize, organized by shape. Today, we're not going to look at what the formulas mean or how to solve them. Today, we're looking only at your ability to identify the shape and determine the correct formulas that go with them.

Image	Shape	Perimeter (P)	Base Area (A)
	Circle	<i>Perimeter is circumference, so... $P = 2\pi r$</i>	$A = \pi r^2$
	Triangle	<i>Add all the sides</i>	$A = \frac{bh}{2}$ or $A = \frac{1}{2}bh$
	Rectangle/ Parallelogram	<i>Add all the sides</i>	$A = bh$
	Trapezoid	<i>Add all the sides</i>	$A = \frac{(b_1 + b_2)h}{2}$
	Rhombus or Kite	<i>Add all the sides</i>	$A = \frac{d_1 d_2}{2}$
	Regular Polygon	<i>Add all the sides</i>	$A = \frac{aP}{2}$ <i>Notice that there are two A's in this equation. One is lowercase, and one is capitalized. This is important!</i>

Identify each shape. Write how you would find its perimeter, and copy the correct Base Area formula.

<p>EXAMPLE</p>  <p>Shape: <u>Regular Polygon</u></p> <p>How to find perimeter: <u>Add all the sides</u></p> <p>Base Area Formula: $A = \frac{aP}{2}$</p>	<p>EXAMPLE</p>  <p>Shape: <u>Kite</u></p> <p>How to find perimeter: <u>Add all the sides</u></p> <p>Base Area Formula: $A = \frac{d_1 d_2}{2}$</p>	<p>1.</p>  <p>Shape: _____</p> <p>How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>2.</p>  <p>Shape: _____</p> <p>How to find perimeter: _____</p> <p>Base Area Formula: _____</p>
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<p>3.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>4.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>5.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>6.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>
<p>7.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>8.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>9.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>10.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>
<p>11.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>12.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>13.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>14.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>
<p>15.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>16.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>17.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>	<p>18.</p>  <p>Shape: _____ How to find perimeter: _____</p> <p>Base Area Formula: _____</p>
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