

Name: KEY

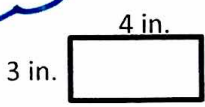

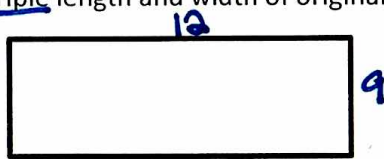
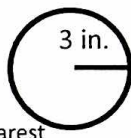
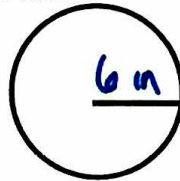
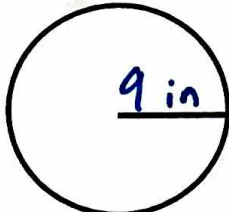
CHANGE IN DIMENSIONS

units^①

Period: _____

units^②



FIGURE	PERIMETER / CIRCUMFERENCE	AREA
<p>1. Original</p> 	$P = 4 + 3 + 4 + 3$ $P = \underline{14 \text{ in}'}$	$A = L \cdot W$ $A = 3 \cdot 4$ $A = \underline{12 \text{ in}^2}$
<p>2. Double length and width of original.</p> <p>x2</p> 	$[2]^{\textcircled{1}} = 2 \text{ times bigger}$ $14 \cdot 2 = \underline{28 \text{ in}}$	$[2]^{\textcircled{2}} = 4 \text{ times bigger}$ $12 \cdot 4 = \underline{48 \text{ in}^2}$
<p>3. Triple length and width of original.</p> <p>x3</p> 	$[3]^{\textcircled{1}} = 3 \text{ times bigger}$ $14 \cdot 3 = \underline{42 \text{ in}}$	$[3]^{\textcircled{2}} = 9 \text{ times bigger}$ $12 \cdot 9 = \underline{108 \text{ in}^2}$
<p>4. Original</p>  <p>Use $\pi = 3.14$ Round to the nearest hundredth</p>	$C = 2\pi r$ $C = 2 \cdot 3 \cdot 1.4 \cdot 3$ $C = \underline{18.84 \text{ in}}$	$A = \pi r^2$ $A = 3 \cdot 1.4 \cdot 3^2$ $A = \underline{28.26 \text{ in}^2}$
<p>5. Double the radius.</p> <p>x2</p> 	$[2]^{\textcircled{1}} = 2 \text{ times bigger}$ $18.84 \cdot 2 = \underline{37.68 \text{ in}}$	$[2]^{\textcircled{2}} = 4 \text{ times bigger}$ $28.26 \cdot 4 = \underline{113.04 \text{ in}^2}$
<p>6. Triple the radius.</p> <p>x3</p> 	$[3]^{\textcircled{1}} = 3 \text{ times bigger}$ $18.84 \cdot 3 = \underline{56.52 \text{ in}}$	$[3]^{\textcircled{2}} = 9 \text{ times bigger}$ $28.26 \cdot 9 = \underline{254.34 \text{ in}^2}$
<p>7. Describe the resulting effects on perimeter and area.</p>	<p>The perimeter changes the same way the dimensions do.</p>	<p>The area changes based on</p> 