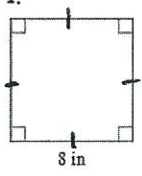
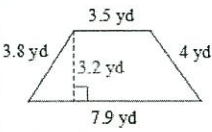
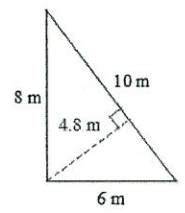
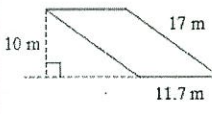
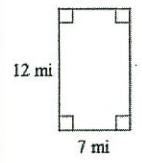
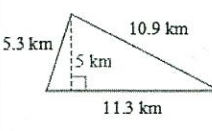
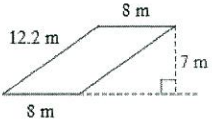
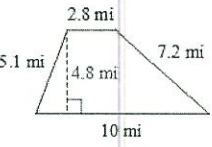


Name: Answer Key

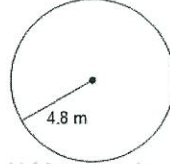
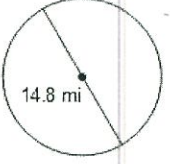
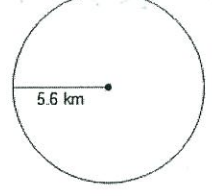
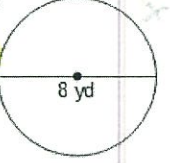
2D Geometry Quiz Review

Find the area and the perimeter of each shape. Round to the nearest tenth.

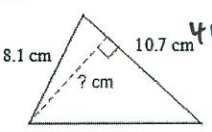
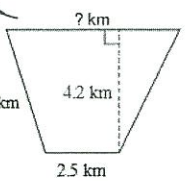
<p>1.</p>  <p>$A = 8 \cdot 8 =$ 64 in^2</p> <p>$P = 8 + 8 + 8 + 8 =$ 32 in</p>	<p>2.</p>  <p>$A = \frac{1}{2} \cdot 3.2 \cdot (3.5 + 7.9)$ 18.24 yd^2</p> <p>$P = 3.8 + 3.5 + 4 + 7.9$ 19.2 yd</p>
<p>3.</p>  <p>$A = \frac{10 \cdot 4.8}{2}$ 24 m^2</p> <p>$P = 8 + 6 + 10$ 24 m</p>	<p>4.</p>  <p>$A = 11.7 \cdot 10$ 117 m^2</p> <p>$P = 11.7 + 17 + 11.7 + 17$ 57.4 m</p>
<p>5.</p>  <p>$A = 12 \cdot 7$ 84 mi^2</p> <p>$P = 12 + 7 + 12 + 7 =$ 38 mi</p>	<p>6.</p>  <p>$A = \frac{11.3 \cdot 5}{2}$ 28.25 km^2</p> <p>$P = 5.3 + 10.9 + 11.3 =$ 27.5 km</p>

<p>7.</p>  <p>$A = 8 \cdot 7 =$ 56 m^2</p> <p>$P = 8 + 12.2 + 8 + 12.2 =$ 40.4 m</p>	<p>8.</p>  <p>$A = \frac{1}{2} \cdot 4.8 \cdot (2.8 + 10)$ 30.72 mi^2</p> <p>$P = 2.8 + 5.1 + 10 + 7.2 =$ 25.1 mi</p>
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Find the Area and Circumference for each circle.

<p>9.</p>  <p>$A = \pi(4.8)^2$ 72.3 m^2</p> <p>$C = 2\pi(4.8)$ 30.1 m</p>	<p>10.</p>  <p>$A = \pi(7.4)^2$ 171.9 mi^2</p> <p>$C = \pi(14.8)$ 46.5 mi</p>
<p>11.</p>  <p>$A = \pi(5.6)^2$ 98.5 km^2</p> <p>$C = 2\pi(5.6)$ 32 km</p>	<p>12.</p>  <p>$A = \pi(4)^2$ 50.24 yd^2</p> <p>$C = \pi(8)$ 25.12 yd</p>

Find the missing measurements of each shape. Round your answers to the nearest tenth when necessary.

<p>13. Find the diameter of circle if the Circumference is 44 cm.</p> $\frac{44}{\pi} = \frac{\pi d}{\pi}$ <p>$d = 14 \text{ cm}$</p>	<p>14. Find the radius of a circle if the Circumference is 69.1 yd.</p> $\frac{69.1}{\pi} = \frac{\pi d}{\pi}$ <p>$d = 22 \text{ yd}$ $r = 11 \text{ yd}$</p>
<p>15.</p>  <p>$41.7 = \frac{10.7 h}{2}$ $83.4 = \frac{10.7 h}{10.7}$ $h = 7.8 \text{ cm}$</p>	<p>16.</p> 

Solve for the following. Round to the nearest tenths when necessary.

<p>17. The base length of a rectangle is multiplied by 8. How does this affect the area?</p> <p>$\times 8$</p>	<p>18. Betty wants to install new carpet in her living room. The room is 15 ft by 15 ft. If the cost of the carpet is \$8 per square foot, what will be the total cost to carpet Betty's living room?</p> <p>$15 \cdot 15 = 225 \text{ ft}^2$ $225 \cdot 8 = \\$1800$</p>
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<p>19. Charlie has a rectangular flower garden that is 5 yd by 12 yd. One bag of fertilizer can cover 6 yd². How many bags will he need to buy to cover the entire garden?</p> <p>$5 \cdot 12 = \frac{60 \text{ yd}^2}{6}$</p> <p>$10 \text{ bags}$</p>	<p>20. A circle with a diameter of 4 cm is tripled. How does this affect the area?</p> <p>$A = \pi(2)^2 = 12.56$ $A = \pi(6)^2 = 113.04$ $\times 9$</p>
<p>21. Zoe places a round table on top of a round area rug. If the area rug has a diameter of 12 feet and the table was a diameter of 4 feet, how much of the area rug will not be covered by the table?</p> <p>$A = \pi(6)^2 = 113.04$ $A = \pi(2)^2 = 12.56$</p> <p>$113.04 - 12.56 = 100.48 \text{ ft}^2$</p>	<p>22. What would happen to the area of a triangle if both dimensions are tripled?</p> <p>$\times 9$</p>