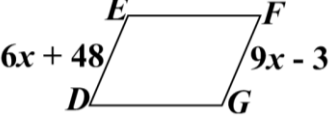
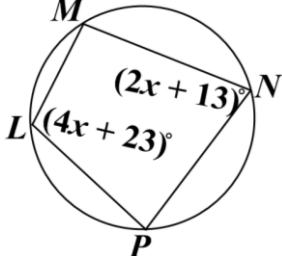
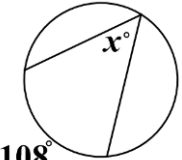
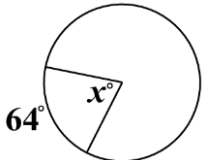
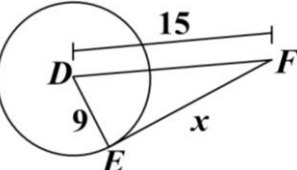
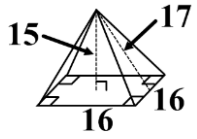
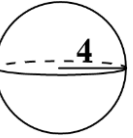
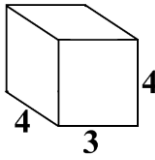


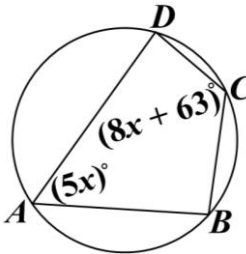
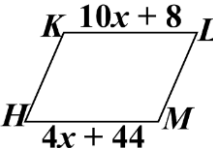
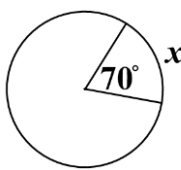
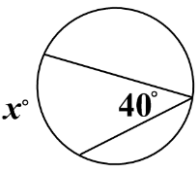
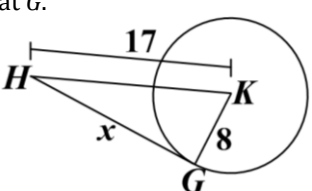
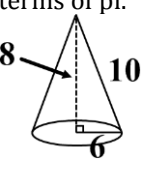
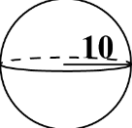
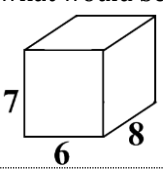
Unit 6 Practice Test A

<p>1. Determine the length of side <math>DE</math> on the parallelogram.</p> 	<p>2. Determine <math>m\angle L</math>.</p> 
<p>Answer:</p>	<p>Answer:</p>
<p>3. Determine the value of <math>x</math>.</p> 	<p>4. Determine the value of <math>x</math>.</p> 
<p>Answer:</p>	<p>Answer:</p>
<p>5. Determine the value of <math>x</math>, given that <math>\overline{EF}</math> is tangent to <math>\odot D</math> at <math>E</math>.</p> 	<p>6. Determine the volume of the square pyramid.</p> 
<p>Answer:</p>	<p>Answer:</p>
<p>7. A square prism has a volume of <math>50 \text{ cm}^3</math>. Determine the base length if the height of the prism is <math>2 \text{ cm}</math>.</p>	<p>8. Determine the volume of a cone that has a radius of <math>3 \text{ cm}</math>, a height of <math>4 \text{ cm}</math> and a slant height of <math>5 \text{ cm}</math>. Write your answer in terms of pi.</p>
<p>Answer:</p>	<p>Answer:</p>
<p>9. Determine the volume of the given sphere in terms of pi.</p> 	<p>10. If the figure below were dilated by a scale factor of <math>k = 2</math>, what would be the volume of the dilated figure?</p> 
<p>Answer:</p>	<p>Answer:</p>

<p>Prism <math>V = BH</math></p>	<p>Cylinder <math>V = \pi r^2 H</math></p>	<p>Pyramid <math>V = \frac{BH}{3}</math></p>	<p>Cone <math>V = \frac{\pi r^2 H}{3}</math></p>	<p>Sphere <math>V = \frac{4\pi r^3}{3}</math></p>
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1. $DE = 150$	2. $m\angle L = 119^\circ$	3. $x = 54^\circ$	4. $x = 64^\circ$	5. $x = 12$
6. $V = 1280$	7. $b = 5 \text{ cm}$	8. $V = 12\pi \text{ cm}^3$	9. $V = 85.3\pi$	10. $V = 384$

Unit 6 Practice Test B

<p>1. Determine <math>m\angle C</math>.</p> 	<p>2. Determine the length of side <math>KL</math> on the parallelogram.</p> 
<p>Answer:</p>	<p>Answer:</p>
<p>3. Determine the value of <math>x</math>.</p> 	<p>4. Determine the value of <math>x</math>.</p> 
<p>Answer:</p>	<p>Answer:</p>
<p>5. Determine the value of <math>x</math>, given that <math>\overline{GH}</math> is tangent to <math>\odot K</math> at <math>G</math>.</p> 	<p>6. Determine the volume of the cone. Leave your answer in terms of pi.</p> 
<p>Answer:</p>	<p>Answer:</p>
<p>7. A cylinder has a volume of <math>245\pi</math> in. Determine the length of the radius, if the height of the cylinder is 5 in.</p>	<p>8. Determine the volume of a cone that has a radius of 7 in, a height of 24 in and a slant height of 25 in. Write your answer in terms of pi.</p>
<p>Answer:</p>	<p>Answer:</p>
<p>9. Determine the volume of the given sphere in terms of pi.</p> 	<p>10. If the figure below were dilated by a scale factor of <math>k = 4</math>, what would be the volume of the dilated figure?</p> 
<p>Answer:</p>	<p>Answer:</p>

<p>Prism <math>V = BH</math></p>	<p>Cylinder <math>V = \pi r^2 H</math></p>	<p>Pyramid <math>V = \frac{BH}{3}</math></p>	<p>Cone <math>V = \frac{\pi r^2 H}{3}</math></p>	<p>Sphere <math>V = \frac{4\pi r^3}{3}</math></p>
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1. $m\angle C = 135^\circ$	2. $KL = 68$	3. $x = 70^\circ$	4. $x = 80^\circ$	5. $x = 15$
6. $V = 96\pi$	7. $r = 7$ in	8. $V = 392\pi$ in <sup>3</sup>	9. $V = 1333.3\pi$	10. $V = 21504$