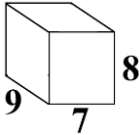
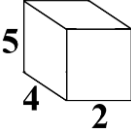
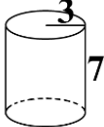



## Unit 6 (Part 2) Review

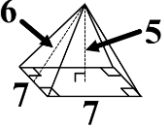
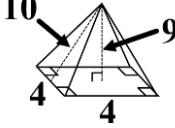
**Prisms**

<p>1. Determine the volume of a rectangular prism that has a base length of 7 in, a base height of 11 in and a height of 10 in.</p>	<p>2. Determine the volume of the rectangular prism.</p> 	<p>3. If the figure below were dilated by a scale factor of <math>k = 5</math>, what would the volume of the dilated figure be?</p> 	<p>4. A square prism has a volume of <math>252 \text{ cm}^3</math>. Determine the base height if the height of the prism is 7 cm.</p>
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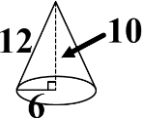
**Cylinders**

<p>5. Determine the volume of a cylinder that has a radius of 12 in and a height of 11 in.</p>	<p>6. Determine the volume of the cylinder. Leave your answer in terms of pi.</p> 	<p>7. If the figure below were dilated by a scale factor of <math>k = 4</math>, what would the volume of the dilated figure be?</p> 	<p>8. A cylinder has a volume of <math>363\pi \text{ in}^3</math>. Determine the radius if the height is 3 in.</p>
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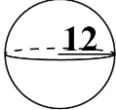

**Pyramids**

<p>9. Determine the volume of a square pyramid that has a base length of 16 in, a height of 6 in and a slant height of 10 in.</p>	<p>10. Determine the volume of the square pyramid.</p> 	<p>11. If the figure below were dilated by a scale factor of <math>k = 2</math>, what would the volume of the dilated figure be?</p> 	<p>12. A square pyramid has a volume of <math>96 \text{ in}^3</math>. Determine the base length if the height is 2 in.</p>
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**Cones**

<p>13. Determine the volume of a cone that has a radius of 15 cm, a height of 8 cm and a slant height of 17 cm.</p>	<p>14. Determine the volume of the cone. Leave your answer in terms of pi.</p> 	<p>15. If the figure below were dilated by a scale factor of <math>k = 3</math>, what would the volume of the dilated figure be?</p> 	<p>16. A cone has a volume of <math>16\pi \text{ in}^3</math>. Determine the radius if the height is 12 in.</p>
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**Spheres**

<p>17. Determine the volume of a sphere that has a radius of 15 cm.</p>	<p>18. Determine the volume of the given sphere in terms of pi.</p> 	<p>19. If the figure below were dilated by a scale factor of <math>k = 2</math>, what would the volume of the dilated figure be?</p> 
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Unit 6 (Part 2) Review Answers

1. $V = 770 \text{ in}^3$	2. $V = 504$	3. $V = 5000$	4. $h = 6 \text{ cm}$	5. $V = 1584\pi \text{ in}^3$
6. $V = 63\pi$	7. $V = 64000\pi$	8. $r = 11 \text{ in}$	9. $V = 512 \text{ in}^3$	10. $V = 81.7$
11. $V = 384$	12. $b = 12 \text{ in}$	13. $V = 600\pi \text{ cm}^3$	14. $V = 53.3\pi$	15. $V = 3240\pi$
16. $r = 2 \text{ in}$	17. $V = 4500\pi$	18. $V = 2304\pi$	19. $V = 288\pi$	