## Geometric Measurement Worksheet 4

Round all answers to the nearest tenth.

- 1. Given a sphere with a volume of 2000 cm<sup>3</sup>, find the area of the perpendicular cross section right through its center.
- 2. Given a cylinder with radius 7 in and height 10 in, find the area of a cross section that is parallel to its base.
- 3. Given a cone with a radius of 6 ft and a height of 12 ft, find the area of the triangle formed by a perpendicular cross section down through the cone's center.
- 4. Given a cube with volume of 27,000 cm<sup>3</sup>, find the area of a cross section parallel to its base.
- 5. Given a cylinder with height 60 mm and radius 20 mm, find the area of the rectangle formed by the perpendicular cross-section right down the cylinder's center.

- 6. A circle has a radius of 15 cm. What is the volume of the sphere made by rotating this circle?
- 7. A rectangle has a length of 3 m and a height of 5 m. What is the volume of the cylinder made by rotating this rectangle?
- 8. An isosceles triangle has base of 20 ft and an altitude of 30 ft. What is the volume of the cone made by rotating this triangle?
- 9. A square with area of 100 cm<sup>2</sup> is rotated to form a cylinder. What is the volume of the cylinder?
- 10. If an equilateral triangle with perimeter 24 cm is rotated, find the volume of the cone that is formed.

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