

10-2 Three Dimensional Figures

Name: _____

Time Start: _____ Finish: _____

Total Time = _____

- _____ 1. What is the total surface area of a cylinder with a radius of 3 inches and a height of 6 inches?
- _____ 2. What is the total surface area of a cylinder with a radius of 8 inches and a height that is equal to its diameter?
- _____ 3. What is the volume of a sphere that has a radius of 6 cm?
- _____ 4. What is the surface area of a sphere that has a diameter of 10 cm?
- _____ 5. What is the volume of a cylinder that has a diameter of 6 cm and a height four times its radius?
- _____ 6. What is the volume of a pyramid that has a height of 6 cm and a square base with each side being 8 cm in length?
- _____ 7. Box A is 10 cm by 8 cm by 5 cm. Box B is 5 cm by 4 cm by 2 cm. If box B is put into box A, how much room (volume) is left in box A?
- _____ 8. How much volume is left in a 5 cm cube if a 4 cm cube is placed inside the 5 cm cube?
- _____ 9. How much volume is left inside a 6 cm sphere if a 4 cm sphere is placed inside the 6 cm sphere?
- _____ 10. How much larger (square inches) is a 14 inch pizza than a 12 inch pizza?
- _____ 11. The radius of Sphere A is 2 inches, and the radius of Sphere B is 4 inches. How many times larger is the volume of Sphere B compared to the volume of Sphere A?