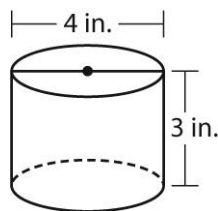
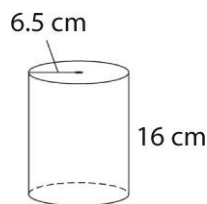


Name: \_\_\_\_\_ Teacher: \_\_\_\_\_ School: \_\_\_\_\_

**Grade 8: Lesson 19** Volume of Cylinders

Complete the following exercises. You may use a calculator as needed.

1. Find the volume of each cylinder. Round your answer to the nearest tenth if necessary. Use 3.14 for  $\pi$ .



2. A cylindrical oil drum has a diameter of 2 feet and a height of 3 feet. What is the volume of the oil drum?
3. New Oats cereal is packaged in a cardboard cylinder. The packaging is 10 inches tall with a diameter of 3 inches. What is the volume of the New Oats cereal package?
4. A small plastic storage container is in the shape of a cylinder. It has a diameter of 7.6 centimeters and a height of 3 centimeters. What is the volume of the storage cylinder?
5. A can of juice has a diameter of 6.6 centimeters and a height of 12.1 centimeters. What is the total volume of a six-pack of juice cans?
6. Mr. Macady has an old cylindrical grain silo on his farm that stands 25 feet high with a diameter of 10 feet. Mr. Macady is planning to tear down the old silo and replace it with a new and bigger one. The new cylindrical silo will stand 30 feet high and have a diameter of 15 feet.
- What is the volume of the old silo?
  - What is the volume of the new silo?
  - How much greater is the volume of the new silo than the old silo?

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