Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

Volume of Cones Exit Pass

Directions: Solve each problem. Use the π symbol on the calculator. If you do not have a calculator with the pi key on it, use 3.14. Round all of your answers to the nearest *tenth*.

1. For a science project, Angela constructed a cone to use as a mountain. The cone has a diameter of 10 in. and a height of 15 in. What is the *approximate* volume of the cone?

2.  An ice cream cone has a radius of 2 inches and a height of 6 inches. How much ice cream can fit inside the cone?

3. A company makes a cone-shaped container with a height of15 in. The area of its base is about 78.8 in.2 *Approximately*what is the volume of the container?

4.  The worlds largest ice cream cone was 10 feet tall and 3 feet in diameter. Ice cream weighs about 19.8 pounds per cubic foot. If this cone was filled with ice cream to the top without going over, *approximately* how many pounds of ice cream could this cone hold?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

Volume of Cones Exit Pass

Directions: Solve each problem. Use the π symbol on the calculator. If you do not have a calculator with the pi key on it, use 3.14. Round all of your answers to the nearest *tenth*.

1. For a science project, Angela constructed a cone to use as a mountain. The cone has a diameter of 10 in. and a height of 15 in. What is the *approximate* volume of the cone?

2.  An ice cream cone has a radius of 2 inches and a height of 6 inches. How much ice cream can fit inside the cone?

3. A company makes a cone-shaped container with a height of15 in. The area of its base is about 78.8 in.2 *Approximately*what is the volume of the container?

4.  The worlds largest ice cream cone was 10 feet tall and 3 feet in diameter. Ice cream weighs about 19.8 pounds per cubic foot. If this cone was filled with ice cream to the top without going over, *approximately* how many pounds of ice cream could this cone hold?

ANSWER KEY:

1. 392.7 cubic inches

2. 25.1 cubic inches

3. 394 cubic inches

4. 466.5 lbs