

# Volume of a Cone

## Practice Your Understanding

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Write down the equation for calculating the volume of a cone below:

2. Using this formula calculate the volume of a cone that has a radius of  $17.3\text{ m}$  and a height of  $31.6\text{ m}$ . Show all work and record your answer below:

3. Given the volume of a cone to be  $7719.13\text{ m}^3$ , and a radius to be  $54.3\text{ m}$ , find the height of the cone. You can use a calculator for this problem, but show all the steps you would take to solve this problem and record your answer below:

4. What is the volume of a cone that has a radius of  $0.8\text{ m}$  and a height of  $1.49\text{ m}$ ? What would you call a cone of this type? Show all work and record your answer below:

