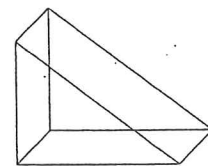
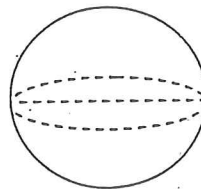
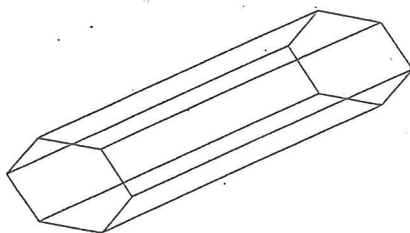
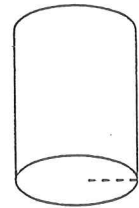
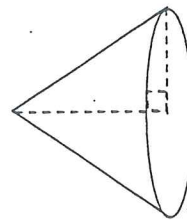
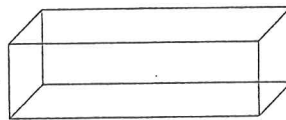
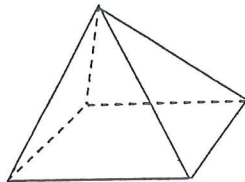
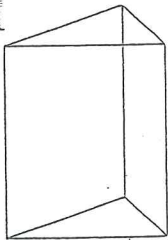
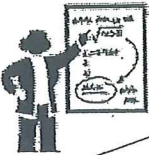


Measurement Lesson #4: Volume of Prisms

The volume of an object is defined as being: the amount of space a three dimensional object takes up

A *Prism* is any three dimensional object with **at least one pair** of parallel sides. The *base* of the prism is one of the parallel sides (usually the bottom one)

Class Ex. 1: Find the prisms in the following diagrams. For each prism, shade in the base, state its name (rectangle, circle, triangle, etc.) and its formula.

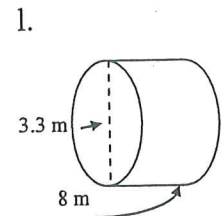
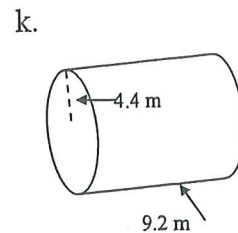
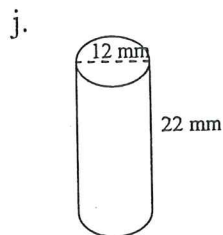
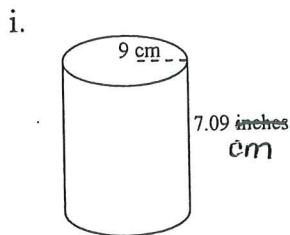
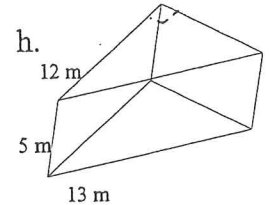
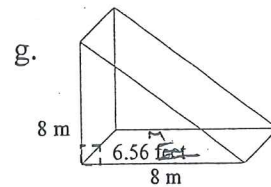
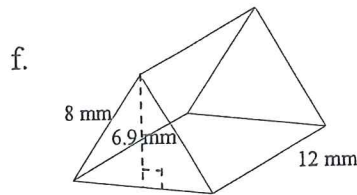
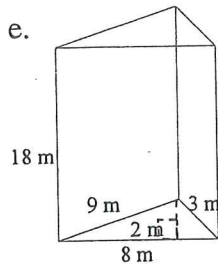
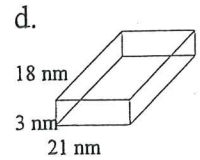
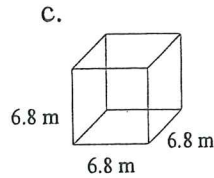
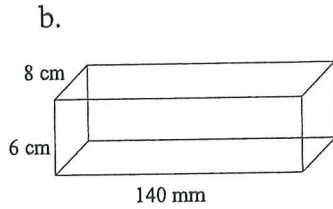
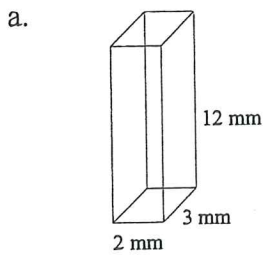


The Volume of a prism is given by the formula:

$$\text{Volume} = \text{Area of Base} \times \text{height}$$

Assignment:

1. State the shape and dimensions of the base of each prism, then find the volume:



Answer Key:

1a) 72

1d) 1134

1g) 209.9

1j) 2488.1

2a) 2 464

2d) 163.4L, 35.9gallons

2e) 708

1b) 672

1e) 144

1h) 150

1k) 559.3

2b) $150.4i^3$

2e) 131946.9

2h) 1400

1c) 314.4

1f) 331.2

1i) 3053.6

1l) 68.39

2c) 163362.8

3c) 2211.7