## Imperial Measurement

Show You Know

Ex. 1	Ex. 2	Ex. 3
The photograph of a muskox uses a scale of 1: 30. Calculate the height of the muskox and the distance between the tips of its horns. State each answer in feet and inches	What is the difference in the viewing area for a 46" standard television (4:3) and a 46" widescreen television (16:9)?	A round Inuit drum needs to have its skin restretched and then lashed into place with sinew. For each inch of the frame, 3 ½ inches of sinew are needed. The diameter of the frame is 1¼ ft. What length of sinew is needed? Express your answer to the nearest quarter of a foot.

## Practice

- 1. Convert each measurement to the unit indicated.
  - a. The circumference of a pipe is 1 ft 3 in. (nearest inch)
  - b. The Burj Khalifa in the United Arab Emirates is the world's tallest skyscraper, with a height of 905 <sup>1</sup>/<sub>2</sub> yards. (nearest foot)
  - c. The elevation of Mount Robson is 12 972 ft. (nearest tenth of a mile)

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

## Lesson 1.2

## Imperial Measurement

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

- 2. A snow gauge is a funnel-shaped device to measure snowfall. The device collects falling snow, which is melted and measured. The amount of snowfall in inches is determined by measuring the depth of water in inches and multiplying that value by 10.
  - a. A snow gauge gathered snow over a period of 12 hours. The melted snow measured 10  $\frac{1}{2}$  in. What was the average snowfall per hour?

b. In an average ski season, a snow gauge in the Sunshine Village area in Banff National Park will measure 36 inches of water. What is the area's average annual snowfall? If the season lasts approximately six months, what is the average snowfall in inches per week?

- 3. Tabular icebergs have a flat table-top surface. Suppose a large tabular iceberg floating in the Antarctic Ocean has a length of 8 480 yds. The iceberg's length to height ratio is 5 to 1 and 11% of its height extends above the water.
  - a. Calculate the height of the iceberg above sea level. State your answer in yards.

b. How far below sea level does the iceberg extend? Express you answer in yards.