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## Imperial Measurement

Show You Know


## 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 $9051 / 2$ yards. (nearest foot)
c. The elevation of Mount Robson is 12972 ft . (nearest tenth of a mile)
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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 $10 \frac{1}{2} \mathrm{in}$. 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 8480 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.
