

Name: Class:

Compare and convert customary units of lengths

Conversion chart for customary units of lengths

12 inches = 1 foot

36 inches = 1 yard

3 feet = 1 yard

5,280 feet = 1 mile

1,760 feet = 1 mile



a. Convert 24 inches to feet

b. Convert (write your answer to the nearest whole number)
347 inches to yards

c. Which is larger, 10 feet or 2 yards?

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- a. Convert 24 inches to feet.

If 12 inches = 1 foot,

$$\text{then, } 24 \text{ inches} = \frac{24 \times 1}{12} = \frac{2 \times 12}{1 \times 12} = 2 \text{ feet}$$

$$= 2 \text{ feet}$$

So, 24 inches = 2 feet.

- b. Convert (write your answer to the nearest whole number).

347 inches to yards

If 36 inches = 1 yard,

$$\text{then, } 347 \text{ inches} = \frac{347 \times 1}{36} = 36 \overline{) 347.0}$$

$$\begin{array}{r} 9.6 \\ - 324 \downarrow \\ \hline 230 \\ - 216 \\ \hline 14 \end{array}$$

9.6 to the nearest whole number = 10.

Therefore, 347 inches = 10 yards.

- c. Which is larger, 10 feet or 2 yards?

Let's first of all convert to one customary unit.

if 3 feet = 1 yard,

$$\text{then } 10 \text{ feet} = \frac{10 \times 1}{3} = 3.3 \text{ yards}$$

So, since 3.3 yard is larger than 2 yards, it implies that 10 feet is larger than 2 yards.