

Customary Units of Length

To change a large unit, such as feet, to a smaller unit, such as inches, you multiply.

To change a small unit, such as inches, to a larger unit, such as feet, you divide. Reduce fractions to lowest terms.

$3\frac{1}{2} \text{ ft.} = \underline{\hspace{2cm}} \text{ in.}$

$18 \text{ in.} = \underline{\hspace{2cm}} \text{ ft.}$

To change to a smaller unit, multiply.

$1 \text{ ft.} = 12 \text{ in.}$

$$3\frac{1}{2} \times 12 = \frac{7}{2} \times \frac{12}{1} = 42 \text{ in.}$$

To change to a larger unit, divide. Reduce if possible.

$1 \text{ ft.} = 12 \text{ in.}$

$$18 \div 12 = 1\frac{6}{12} = 1\frac{1}{2} \text{ ft.}$$

Change each measurement to the smaller unit.

1. $6 \text{ yd.} = \underline{18} \text{ ft.}$
 $1 \text{ yd.} = 3 \text{ ft.}$
 $6 \times 3 = 18 \text{ ft.}$

$8\frac{1}{3} \text{ ft.} = \underline{\hspace{2cm}} \text{ in.}$

$3 \text{ mi.} = \underline{\hspace{2cm}} \text{ ft.}$

2. $4\frac{1}{4} \text{ ft.} = \underline{\hspace{2cm}} \text{ in.}$

$\frac{1}{3} \text{ yd.} = \underline{\hspace{2cm}} \text{ ft.}$

$5 \text{ mi.} = \underline{\hspace{2cm}} \text{ yd.}$

3. $\frac{1}{2} \text{ mi.} = \underline{\hspace{2cm}} \text{ yd.}$

$2 \text{ yd.} = \underline{\hspace{2cm}} \text{ in.}$

$1\frac{2}{3} \text{ yd.} = \underline{\hspace{2cm}} \text{ ft.}$

Change each measurement to the larger unit. Reduce fractions if possible.

4. $40 \text{ in.} = \underline{3\frac{1}{3}} \text{ ft.}$
 $1 \text{ ft.} = 12 \text{ in.}$

$$40 \div 12 = 3\frac{4}{12} = 3\frac{1}{3} \text{ ft.}$$

$16 \text{ ft.} = \underline{\hspace{2cm}} \text{ yd.}$

$2,640 \text{ yd.} = \underline{\hspace{2cm}} \text{ mi.}$

5. $4 \text{ ft.} = \underline{\hspace{2cm}} \text{ yd.}$

$14 \text{ in.} = \underline{\hspace{2cm}} \text{ ft.}$

$50 \text{ in.} = \underline{\hspace{2cm}} \text{ yd.}$

6. $10,560 \text{ ft.} = \underline{\hspace{2cm}} \text{ mi.}$

$12 \text{ in.} = \underline{\hspace{2cm}} \text{ yd.}$

$36 \text{ ft.} = \underline{\hspace{2cm}} \text{ yd.}$

Solve.

7. A board is 6 feet long. How many inches is 6 feet?

8. A driveway is 30 feet long. How many yards is 30 feet?

Answer _____

Answer _____

Customary Units of Length

Answer Key

1. 18 ft. 100 in. 15,840 ft.

2. 51 in. 1 ft. 8,800 yd.

3. 880 yd. 72 in. 5 ft.

4. $3\frac{1}{3}$ ft. $5\frac{1}{3}$ yd. $1\frac{1}{2}$ mi.

5. $1\frac{1}{3}$ yd. $1\frac{1}{6}$ ft. $1\frac{7}{18}$ yd.

6. 2 mi. $\frac{1}{3}$ yd. 12 yd.

7. 72 inches 8. 10 yards

