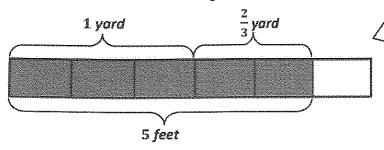
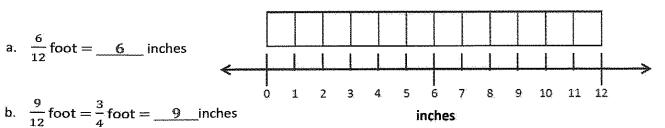
G4-W7-Lesson 12

1. Draw a tape diagram to show $1\frac{2}{3}$ yards = 5 feet.



I know that 1 yard = 3 feet, so Ican decompose each yard in my tape diagram into 3 feet. I can shade in $1\frac{2}{3}$ yards, and since each unit is $\frac{1}{2}$ yard, or 1 foot, I can see that $1\frac{2}{3}$ yards is equal to 5 feet.

2. Solve the problems using whatever tool works best for you.



1 foot

a.
$$\frac{6}{12}$$
 foot = $\frac{6}{12}$ inches

c. $\frac{8}{12}$ foot = $\frac{4}{6}$ foot = $\frac{8}{12}$ inches

For part (a), I know that $\frac{6}{12}$ foot $=\frac{1}{2}$ foot, and I know that half a foot is 6 inches. For parts (b) and (c), I can make equivalent fractions and then find the number of inches. $\frac{3 \times 3}{4 \times 3} = \frac{9}{12}$. $\frac{9}{12}$ foot is the same as 9 inches.

3. Solve.

a.
$$5\frac{1}{3}$$
 yd = 16 ft
15 1
feet foot

b.
$$4\frac{3}{4}$$
 gal = 19 qt
16 3
quarts quarts

c.
$$3\frac{1}{3}$$
 ft = 40 in 36 4 inches inches

1 yard = 3 feet, so 5 yards = 5×3 feet = 15 feet. And $\frac{1}{3}$ yard = 1 foot. 15 feet + 1 foot = 16 feet.

1 gallon = 4 quarts, so 4 gallons =
$$4 \times 4$$
 quarts = 16 quarts. And $\frac{1}{4}$ gallon = 1 quart, so $\frac{3}{4}$ gallon = 3 quarts. 16 quarts + 3 quarts = 19 quarts.

1 foot = 12 inches, so
3 feet =
$$3 \times 12$$
 inches = 36
inches. And $\frac{1}{12}$ foot = 1 inch,
so $\frac{1}{3} = \frac{1 \times 4}{3 \times 4} = \frac{4}{12}$. $\frac{4}{12}$ foot
equals 4 inches. 36 inches
+ 4 inches = 40 inches.