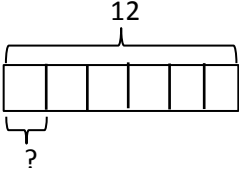
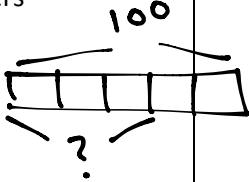
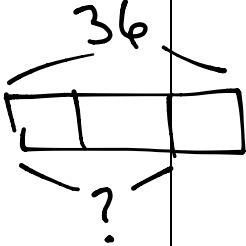


Name _____

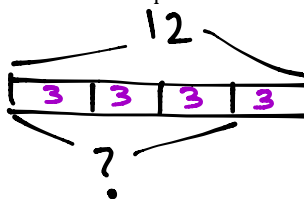
Date _____

1. Convert. Show your work using a tape diagram or an equation. The first one is done for you.

<p>a. $\frac{1}{4}$ yard = <u>9</u> inches</p> <p>$\frac{1}{4}$ yd = $\frac{1}{4} \times 1$ yard</p> <p>= $\frac{1}{4} \times 36$ inches</p> <p>= $\frac{36}{4}$ inches</p> <p>= 9 inches</p>	<p>b. $\frac{1}{6}$ foot = <u>2</u> inches</p> <p>$\frac{1}{6}$ foot = $\frac{1}{6} \times 1$ foot</p> <p>= $\frac{1}{6} \times 12$ inches</p> <p>= $\frac{12}{6}$ in</p> <p>= 2 in</p> 
<p>c. $\frac{3}{4}$ year = <u>9</u> months</p> <p>$\frac{3}{4}$ year = $\frac{3}{4} \times 12$ months</p> <p>= $\frac{36}{4}$ months</p> <p>= 9 months</p>	<p>d. $\frac{3}{5}$ meter = <u>60</u> centimeters</p> <p>$\frac{3}{5}$ m = $\frac{3}{5} \times 100$ cm</p> <p>= $\frac{3 \times 100}{5}$ cm</p> <p>= $\frac{60}{1}$ cm</p> <p>= 60 cm</p> 
<p>e. $\frac{5}{12}$ hour = <u>25</u> minutes</p> <p>$\frac{5}{12}$ hr = $\frac{5}{12} \times 60$ min</p> <p>= $\frac{5 \times 60}{12}$ min</p> <p>= 25 min</p>	<p>f. $\frac{2}{3}$ yard = <u>24</u> inches</p> <p>$\frac{2}{3}$ yd = $\frac{2}{3} \times 36$ in</p> <p>= $\frac{2 \times 36}{3}$ in</p> <p>= 24 in</p> 

2. Michelle measured the length of her forearm. It was $\frac{3}{4}$ of a foot. How long is her forearm in inches?

$\frac{3}{4}$ ft = 9 inches



3. At the market, Ms. Winn bought $\frac{3}{4}$ lb of grapes and $\frac{5}{8}$ lb of cherries.

a. How many ounces of grapes did Ms. Winn buy?

$$\frac{3}{4} \text{ lb} = \underline{12} \text{ ounces}$$

$$\begin{aligned} \frac{3}{4} \text{ lb} &= \frac{3}{4} \times 16 \text{ oz} \\ &= \frac{3 \times \cancel{16}^4}{\cancel{4}_1} \text{ oz} \\ &= 12 \text{ oz} \end{aligned}$$

$$\begin{aligned} \frac{5}{8} \text{ lb} &= \frac{5}{8} \times 16 \text{ ounces} \\ &= \frac{5 \times \cancel{16}^2}{\cancel{8}_1} \text{ oz} \\ &= 10 \text{ oz} \end{aligned}$$

b. How many ounces of cherries did Ms. Winn buy?

$$\frac{5}{8} \text{ lb} = \underline{10} \text{ ounces}$$

c. How many more ounces of grapes than cherries did Ms. Winn buy?

$$12 - 10 = 2$$

2 ounces more of grapes

d. If Mr. Phillips bought $1\frac{3}{4}$ pounds of raspberries, who bought more fruit, Ms. Winn or Mr. Phillips?

How many ounces more?

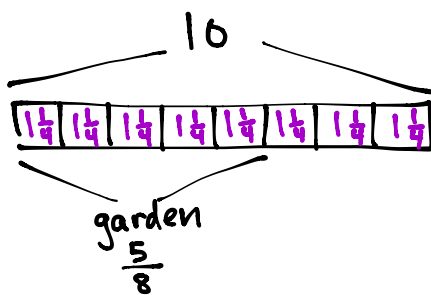
$$\text{MsW: } 12 + 10 = 22 \text{ ounces}$$

$$\frac{3}{4} \text{ lb} = \underline{12} \text{ ounces}$$

$$\text{Mr P: } 16 + 12 = 28 \text{ ounces}$$

Mr P bought 6 ounces more.

4. A gardener has 10 pounds of soil. He used $\frac{5}{8}$ of the soil for his garden. How many pounds of soil did he use in the garden? How many pounds did he have left?



$$1 \text{ unit} = 10 \div 8 = \frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}$$

$$\begin{aligned} \text{garden: } 5 \times 1\frac{1}{4} &= 1\frac{1}{4} + 1\frac{1}{4} + 1\frac{1}{4} + 1\frac{1}{4} + 1\frac{1}{4} \\ &= 5 + \frac{5}{4} \\ &= 5 + 1\frac{1}{4} \\ &= 6\frac{1}{4} \end{aligned}$$

$$\begin{aligned} \text{left: } 3 \times 1\frac{1}{4} &= 1\frac{1}{4} + 1\frac{1}{4} + 1\frac{1}{4} \\ &= 3 + \frac{3}{4} \\ &= 3\frac{3}{4} \end{aligned}$$

$6\frac{1}{4}$ pounds used for garden.
 $3\frac{3}{4}$ pounds left over.