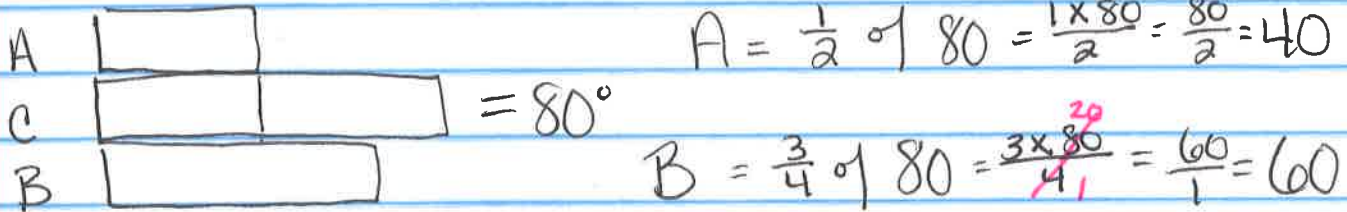


## M4. L9-20 - Conversions

AP

Angle A measures 40 degrees

Angle B measures 60 degrees



Fluency -

$$4 \times 2 = 8 \quad 4 \times 0.2 = 0.8 \quad 0.4 \times 0.2 = 0.08$$

$$0.04 \times 0.2 = 0.008$$

$$2 \times 9 = 18 \quad 2 \times 0.9 = 1.8 \quad 0.2 \times 0.9 = 0.18 \quad 0.02 \times 0.9 = 0.018$$

$$4 \times 3 = 12 \quad 0.4 \times 3 = 1.2 \quad 0.4 \times 0.3 = 0.12 \quad 0.4 \times 0.03 = 0.012$$

Large Unit  $\rightarrow$  Small Unit = Multiply Whole Number  
Small Unit  $\rightarrow$  Large Unit = Multiply by Fraction

$$30 \text{ cm} = \frac{3}{10} \text{ m}$$

EXPAND -  $30 \times 1 \text{ cm}$

CONVERT -  $30 \times \frac{1}{100}$

ANSWER -  $\frac{30 \times 1}{100} = \frac{30}{100} = \frac{3}{10}$

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

$$12 \text{ in} = 1 \text{ foot}$$

$$E = 9 \times 1 \text{ in}$$

$$C = 9 \times \frac{1}{12} \text{ ft}$$

$$A = \frac{\cancel{3}9 \times 1}{\cancel{4}12} = \frac{3}{4}$$

$$20 \text{ hours} = \frac{5}{6} \text{ day}$$

$$24 \text{ hrs} = 1 \text{ day}$$

$$E = 20 \times 1 \text{ hour}$$

$$C = 20 \times \frac{1}{24} \text{ day}$$

$$A = \frac{\cancel{5}20 \times 1}{\cancel{6}24} = \frac{5}{6}$$

$$15 \text{ in.} = \frac{1}{4} \text{ ft}$$

$$12 \text{ in} = 1 \text{ foot}$$

$$E = 15 \times 1 \text{ in}$$

$$C = 15 \times \frac{1}{12} \text{ ft}$$

$$A = \frac{15 \times 1}{12} = \frac{15}{12}$$

$$12 \overline{) 15} \begin{array}{r} 1\frac{3}{4} \\ 12 \\ \hline 3 \end{array}$$

$$1\frac{3}{4} = \frac{1}{4}$$

$$4\frac{1}{3} \text{ yrd} = 13 \text{ ft}$$

$$3 \text{ ft} = 1 \text{ yrd}$$

$$E = 4\frac{1}{3} \times 1 \text{ yrd}$$

$$C = 4\frac{1}{3} \times 3 \text{ ft}$$

$$A = \frac{13}{3} \times 3 = \frac{13 \times \cancel{3}1}{\cancel{3}1} = \frac{13}{1} = 13$$

$$3\frac{1}{2} \text{ gal} = \frac{14}{1} \text{ qt}$$

$$4 \text{ qt} = 1 \text{ gal}$$

$$E = 3\frac{1}{2} \times 1 \text{ gal}$$

$$C = 3\frac{1}{2} \times 4 \text{ qt}$$

$$A = \frac{7}{2} \times 4 = \frac{7 \times 4^2}{2^1} = \frac{14}{1} = 14$$

$$11 \text{ ft} = 3\frac{2}{3} \text{ yds}$$

$$E = 11 \times 1 \text{ ft}$$

$$C = 11 \times \frac{1}{3} \text{ yrd}$$

$$A = \frac{11 \times 1}{3} = \frac{11}{3} = 3\frac{2}{3}$$

$$3\frac{1}{3} \text{ qt} = \underline{\hspace{2cm}} \text{ gal}$$

$$E = 3\frac{1}{3} \times 1 \text{ qt}$$

$$C = 3\frac{1}{3} \times \frac{1}{4} \text{ gal}$$

$$A = \frac{10}{3} \times \frac{1}{4} = \frac{10}{12} = \frac{5}{6}$$