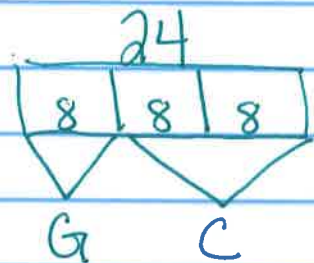
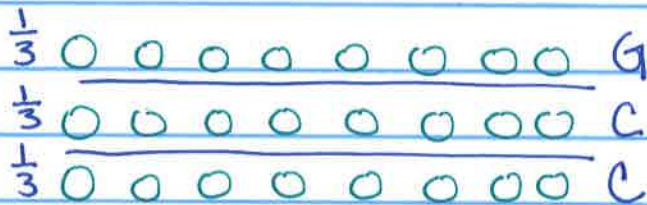


M4.L7 - Multiplying Whole Number by Fraction

AP

Mr. Peterson bought 8 grape juice boxes and 16 cranberry juice boxes.



$$\frac{1}{3} \text{ of } 24 = 8 \quad \frac{2}{3} \text{ of } 24 = 16$$

$$\begin{aligned} 24 \div 3 &= 8 \\ 1 \times 8 &= 8 \\ 2 \times 8 &= 16 \end{aligned}$$

Fluency:

$$\begin{array}{|c|c|} \hline 10 \\ \hline \end{array} \quad 10 \div 2 = 5 \quad \begin{array}{|c|c|} \hline 6 \\ \hline \end{array} \quad 6 \div 2 = 3 \quad \begin{array}{|c|c|c|} \hline 9 \\ \hline \end{array} \quad 9 \div 3 = 3$$

$$\begin{array}{|c|c|c|} \hline 12 \\ \hline \end{array} \quad 12 \div 3 = 4 \quad \begin{array}{|c|c|c|} \hline 12 \\ \hline \end{array} \quad 12 \div 4 = 3 \quad \begin{array}{|c|c|c|c|} \hline 40 \\ \hline \end{array} \quad 40 \div 5 = 8$$

$$\begin{array}{|c|c|c|c|c|} \hline 42 \\ \hline \end{array} \quad 42 \div 6 = 7 \quad \begin{array}{|c|c|c|c|c|c|} \hline 63 \\ \hline \end{array} \quad 63 \div 7 = 9$$

$$\frac{1}{2} \text{ of } 4 = 2 \quad \begin{array}{c} \bullet \\ \bullet \end{array} \Big| \begin{array}{c} 0 \\ 0 \end{array} \quad \frac{1}{2} \text{ of } 10 = 5$$

$$\frac{1}{2} \text{ of } 30 = 15 \quad \frac{1}{2} \text{ of } 54 = 27 \quad \frac{1}{3} \text{ of } 18 = 6$$

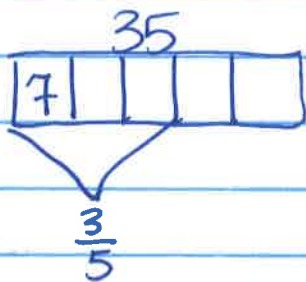
$$4 \div 2 = \frac{4}{2} = 2 \quad 14 \div 2 = \frac{14}{2} = 7 \quad 54 \div 2 = \frac{54}{2} = 27$$

$$40 \div 20 = \frac{40}{20} = 2 \quad 180 \div 2 = \frac{180}{2} = 90 \quad 960 \div 20 = \frac{960}{20} = 48$$

$$35 \div 5 = \frac{35}{5} = 7 \quad 85 \div 5 = \frac{85}{5} = 17 \quad 900 \div 50 = \frac{900}{50} = 18$$

$$800 \div 25 = \frac{800}{25} = 32$$

$$\frac{3}{5} \text{ of } 35 = 21$$



$$5 \text{ units} = 35$$

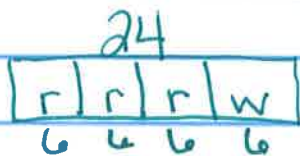
$$1 \text{ unit} = \frac{35}{5}$$

$$= 7$$

$$3 \text{ units} = 3 \times 7$$

$$= 21$$

Aurelia buys 2 dozen roses. Of these roses, $\frac{3}{4}$ are red, and the rest are white. How many white roses did she buy?



6 white roses
18 red roses.

$\frac{1}{4}$ of 24

$$\frac{24}{4} = 6$$

$$1 \times 6 = 6$$

$$3 \times 6 = 18$$

Rosie had 17 yards of fabric. She used one-third of it to make a quilt. How many yards of fabric did Rosie use for the quilt?



$\frac{1}{3}$ of 17 = $5\frac{2}{3}$

$$\frac{17}{3} = 5\frac{2}{3}$$

$$\begin{array}{r} 5\frac{2}{3} \\ 3 \overline{) 17} \\ \underline{-15} \\ 2 \end{array}$$

$\frac{2}{3}$ of a number is 8. What is that number?



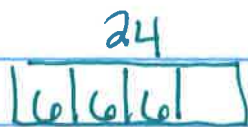
8

$$8 \div 2 = 4$$

$$3 \times 4 = 12$$

12

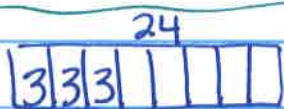
$$\frac{3}{4} \text{ of } 24 =$$



$$\frac{24}{4} = 6$$

$$3 \times 6 = 18$$

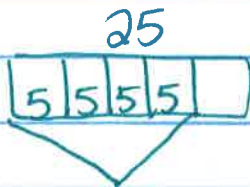
$$\frac{3}{8} \text{ of } 24 = 9$$



$$\frac{24}{8} = 3$$

$$3 \times 3 = 9$$

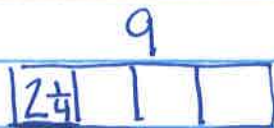
$$\frac{4}{5} \text{ of } 25 = 20$$



$$\frac{25}{5} = 5$$

$$5 \times 4 = 20$$

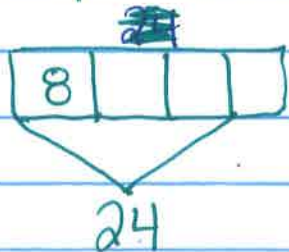
$$\frac{1}{4} \times 9 = 2\frac{1}{4}$$



$$\frac{9}{4} = 2\frac{1}{4}$$

$$\begin{array}{r} 2\frac{1}{4} \\ 4 \overline{) 9} \\ \underline{8} \\ 1 \end{array}$$

$\frac{3}{4}$ of a number is 24. What is that number?



$$24 \div 3 = 8$$

$$8 \times 4 = 32$$

32