Sample Fraction Problems

$$3 \times \frac{5}{6}$$

3 groups

$$\frac{5}{B} \qquad \frac{5}{B} \qquad \frac{5}{B}$$

$$\frac{15}{B} = \frac{15}{6} = 2\frac{3}{6} = 2\frac{1}{2}$$

solution

$$\frac{9}{12} \times \frac{2}{3}$$

9 greens

$$\frac{3}{G} \qquad \frac{3}{G} \qquad \frac{3}{G}$$

$$\frac{3}{G} + \frac{3}{G} = \frac{6}{G} = \frac{6}{12} = \frac{1}{2}$$

$$2\frac{3}{4} \times 3$$
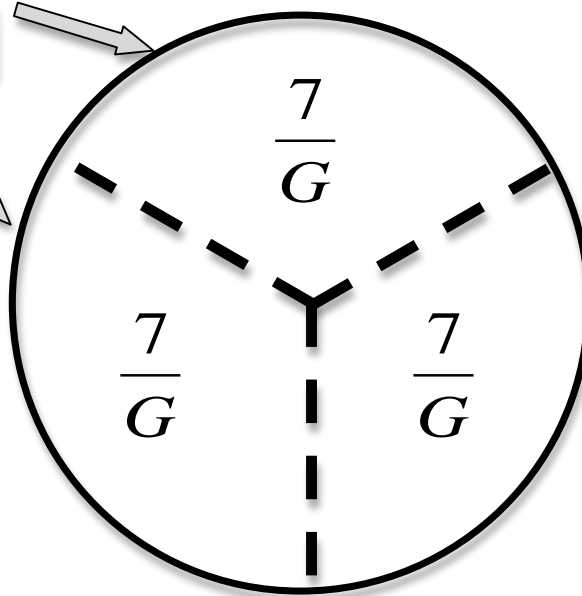
3 groups

$$2\frac{3}{R} \qquad 2\frac{3}{R} \qquad 2\frac{3}{R}$$

$$6\frac{9}{R} = 6\frac{9}{4} = 8\frac{1}{4}$$

solution

$$\frac{2}{3} \times 1\frac{9}{12}$$

21 greens

$$\frac{7}{G}$$

$$\frac{7}{G} \qquad \frac{7}{G}$$

$$\frac{7}{G} + \frac{7}{G} = \frac{14}{G} = \frac{14}{12} = 1\frac{2}{12} = 1\frac{1}{6}$$

$$1\frac{2}{3} \times 3\frac{3}{4}$$

3 pink & 2 reds

solution

$$3\frac{3}{R}$$

$$1\frac{1}{R}$$

$$1\frac{1}{R} \qquad 1\frac{1}{R}$$

$$3\frac{3}{R} + 1\frac{1}{R} + 1\frac{1}{R} = 5\frac{5}{R} = 6\frac{1}{R} = 6\frac{1}{4}$$

$$\frac{2}{3} \div 2$$

2 groups

$$\frac{1}{C} \qquad \frac{1}{C}$$

Solution = 1 group

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

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

Complete the group

$$\frac{3}{R}$$

$$\frac{3}{R}$$

$$\frac{3}{R} \qquad \frac{3}{R}$$

Solution = 1 group

$$\frac{3}{R} + \frac{3}{R} + \frac{3}{R} = \frac{9}{R} = 2\frac{1}{R} = 2\frac{1}{4}$$

Think….7 chevrons, trade for 28 greens to divide by 4

$$2\frac{1}{3} \div 4$$

$$\frac{7}{G} \qquad \frac{7}{G}$$

$$\frac{7}{G} \qquad \frac{7}{G}$$

Solution = 1 group

$$\frac{7}{G} = \frac{7}{12}$$

Think....11 reds, trade for 33 greens to divide into 3 quarters

$$2\frac{3}{4} \div \frac{3}{4}$$

$\dfrac{11}{G}$

$\dfrac{11}{G}$ $\dfrac{11}{G}$

Complete the group

$\dfrac{11}{G}$ $\dfrac{11}{G}$

$\dfrac{11}{G}$ $\dfrac{11}{G}$

Solution = 1 group

$$\frac{11}{G} + \frac{11}{G} + \frac{11}{G} + \frac{11}{G} = \frac{44}{G} = 3\frac{8}{12} = 3\frac{2}{3}$$

Think....7 chevrons, trade for 28 greens to divide into 4 thirds

$$2\frac{1}{3} \div 1\frac{1}{3}$$

$\dfrac{7}{G}$

$\dfrac{7}{G}$ $\dfrac{7}{G}$

Solution = 1 group

$\dfrac{7}{G}$

$$\frac{7}{G} + \frac{7}{G} + \frac{7}{G} = \frac{21}{G} = 1\frac{9}{G} = 1\frac{3}{4}$$