

Practice Assignment

1. Divide the following fractions:

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

$$\frac{4}{1} \cdot \frac{3}{2} = \frac{12}{2} = \boxed{6}$$

b. $\frac{3}{2} \div \frac{1}{6}$

$$\frac{3}{2} \cdot \frac{6}{1} = \frac{18}{2} = \boxed{9}$$

c. $\frac{5}{6} \div \frac{1}{2}$

$$\frac{5}{6} \cdot \frac{2}{1} = \frac{10}{6} = \boxed{\frac{5}{3}}$$

d. $\frac{7}{8} \div \frac{1}{4}$

$$\frac{7}{8} \cdot \frac{4}{1} = \frac{28}{8} = \boxed{\frac{7}{2}}$$

e. $6\frac{1}{2} \div 2\frac{1}{2}$

$$\frac{13}{2} \cdot \frac{2}{5} = \frac{26}{10} = \boxed{\frac{13}{5}}$$

f. $5\frac{1}{2} \div 1\frac{1}{4}$

$$\frac{11}{2} \cdot \frac{4}{5} = \frac{44}{10} = \boxed{\frac{22}{5}}$$

g. $5\frac{3}{4} \div 1\frac{1}{8}$

$$\frac{23}{4} \cdot \frac{8}{9} = \frac{46}{9}$$

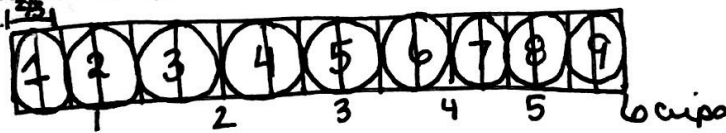
h. $6 \div 2\frac{1}{3}$

$$\frac{6}{1} \cdot \frac{3}{7} = \boxed{\frac{18}{7}}$$

2. Charles has 6 cups of popcorn. How many friends can he share the popcorn with if each is given $\frac{2}{3}$ cup?
Draw a diagram to represent the problem and then solve it.

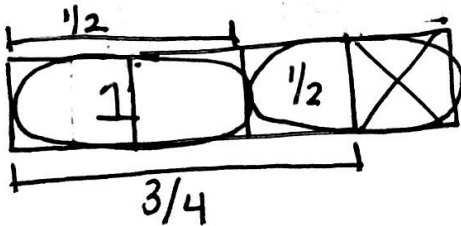
$6 \div \frac{2}{3}$

$$\frac{6}{1} \cdot \frac{3}{2} = \frac{18}{2} = \boxed{9}$$



9 friends can share 6 cups

3. Leia has $\frac{3}{4}$ cup of laundry detergent left in the detergent bottle. Each load of laundry requires $\frac{1}{2}$ cup of detergent. How many loads of laundry can Lea wash? Draw a diagram to represent the problem and then solve it.

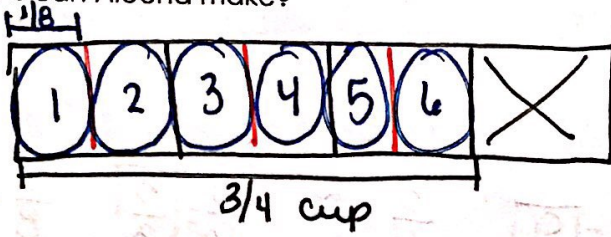


Leia can do $1\frac{1}{2}$ loads of laundry.

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

$$\frac{3}{4} \cdot \frac{2}{1} = \frac{6}{4} = \boxed{\frac{3}{2} \text{ or } 1\frac{1}{2}}$$

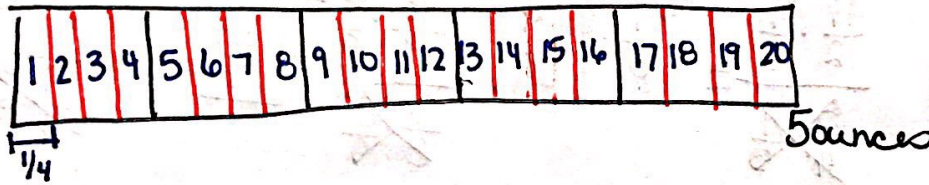
1. Aleena has $\frac{3}{4}$ cup of bananas. A batch of banana muffins requires $\frac{1}{8}$ cup of bananas. How many batches of banana muffins can Aleena make?



She can make 6 batches of muffins.

$$\frac{\cancel{3}^1}{4} \cdot \frac{\cancel{8}_2}{\cancel{1}} = \frac{24}{4} = \boxed{6}$$

2. Each box of Apple Jacks contains 5 ounces of cereal. How many $\frac{1}{4}$ ounce servings does each box contain? Draw a diagram to represent the problem and then solve it.



20 servings in each box.

$$\frac{5}{1} \cdot \frac{\cancel{4}_1}{\cancel{1}} = \frac{20}{1} = \boxed{20}$$