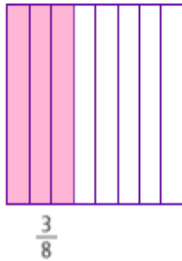


Identification Review

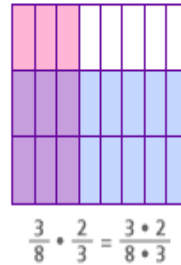
There are three types of fractions:

- _____ Example: $\frac{4}{5}$
- _____ Example: $2\frac{1}{3}$
- _____ Example: $\frac{13}{12}$

The easiest way to multiply or divide fraction is to use improper fractions and proper (common) fractions ONLY!

Multiplying FractionsShade one square, partitioned vertically, to represent $\frac{3}{8}$ (shown below in pink):Shade another square, partitioned horizontally, to represent $\frac{2}{3}$ (shown below in blue):

Superimpose the two squares. The product is the area that is double-shaded (shown below in purple):

**Example 1:** Multiply the following.

1. $\frac{4}{5} \times \frac{4}{5} =$

2. $\frac{4}{2} \cdot \frac{4}{5} =$

3. $\frac{1}{3} \times \frac{4}{7} =$

4. $\frac{2}{3} \times \frac{4}{15} =$

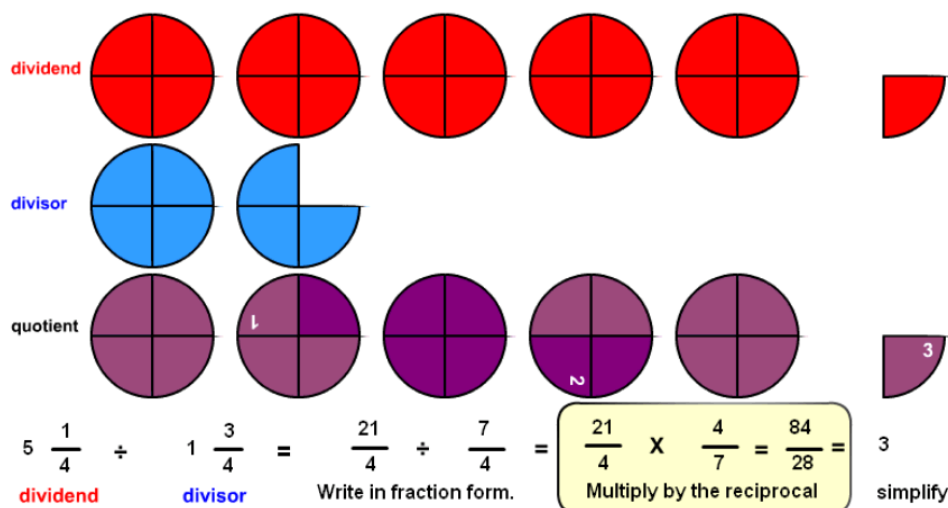
5. $1 \frac{2}{5} \cdot \frac{4}{5} =$

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

Word Problems

1. On Friday, Brandy sold 5 pitchers of lemonade from her lemonade stand. On Saturday, she sold $\frac{2}{5}$ as much lemonade as on Friday. How many pitchers of lemonade did Brandy sell on Saturday?
2. Sean collected $\frac{1}{6}$ of a bin of glass bottles to recycle. Cooper collected 2 times as many bins as Sean. How many bins of bottles did Cooper collect?
3. The cattle at the Johnson Farm are fed 6 bales of hay each day. The horses are fed $\frac{1}{2}$ as much hay as the cattle. How many bales of hay are the horses fed each day?

Dividing Fractions



Example 2: Divide the following.

7. $\frac{2}{5} \div \frac{4}{5} =$

8. $\frac{1}{2} \div \frac{1}{5} =$

9. $\frac{1}{3} \div \frac{2}{7} =$

10. $\frac{3}{4} \div \frac{1}{6} =$

11. $\frac{1}{5} \div \frac{4}{5} =$

12. $\frac{1}{2} \div \frac{6}{5} =$

13. $\frac{1}{2} \div \frac{2}{7} =$

14. $\frac{9}{4} \div \frac{1}{6} =$

Word Problems:

1. A cookie factory uses $\frac{3}{8}$ of a barrel of oatmeal in each batch of cookies. The factory used $\frac{3}{4}$ of a barrel of oatmeal yesterday. How many batches of cookies did the factory make?
2. A cookie factory uses $\frac{1}{4}$ of a bag of flour in each batch of cookies. The factory used $\frac{3}{4}$ of a bag of flour yesterday. How many batches of cookies did the factory make?
3. Kenny made $\frac{1}{5}$ of a pound of trail mix. If he puts $\frac{1}{10}$ of a pound into each bag, how many bags can Kenny fill?