

### Dividing Fractions

Think: How many of one fraction are in the other fraction?

Example: Rick knows that 1 cup of glue weighs  $\frac{1}{18}$  pound. He has  $\frac{2}{3}$  pound of glue. How many cups of glue does he have?

Think: How many  $\frac{1}{18}$  pound are  $\frac{2}{3}$  in pound?

$$\text{So } \frac{2}{3} \div \frac{1}{18}$$

$$\frac{2}{3} \times \frac{18}{1} = \frac{36}{3} = 12 \text{ cups}$$

Don't forget to Keep, Change, Flip!

Don't forget to simplify your answers!

1. Monique made $\frac{5}{8}$ pound of trail mix and divided the mix into 4 equal portions. What is the weight of each portion?	2. Sung Lee studied for 4 hours. If he studies $\frac{2}{3}$ of an hour for each class, how many classes does he have?
3. Joanne has $\frac{9}{10}$ yard of fabric that she wants to divide into 3 equal pieces. How long should each piece be?	4. Jayson takes a total of 5 hours at swimming lesson per week. If each lesson is $\frac{5}{6}$ of an hour, how many lessons does he take per week?
5. Matt takes him $\frac{1}{4}$ hour to mow a yard. How many yards can he mow in $\frac{17}{4}$ hours?	6. Anna has $\frac{4}{5}$ pound of cookies. She places the cookies into bags that hold $\frac{1}{10}$ pound each. How many bags does she fill?