
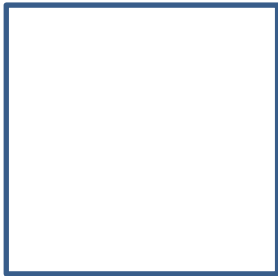


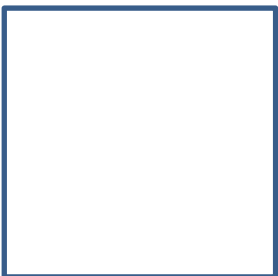
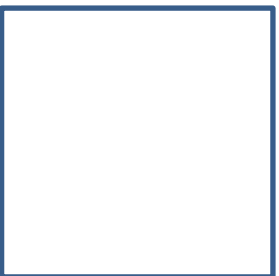
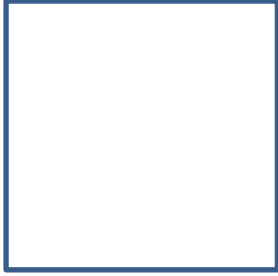
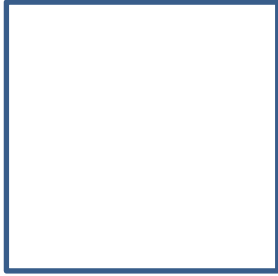
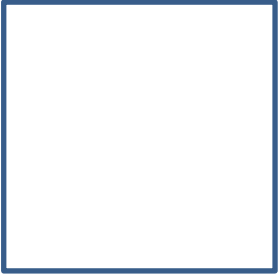


Multiplying and Dividing Fractions
Explore

Use patty paper and complete three tasks below to obtain three in a row. You may work diagonally, horizontally, or vertically. Sketch the results of the patty paper model in the corresponding boxes on the next page.

<p>Genevieve worked on her math homework for $\frac{1}{2}$ hour last night. If she completed each problem in $\frac{1}{6}$ hour, how many math problems did she finish last night?</p> <p>_____</p>	<p>Lafayette ran $\frac{3}{4}$ of a race yesterday and walked the rest. If the length of the race was $\frac{1}{2}$ mile, how far did Lafayette run?</p> <p>_____</p>	<p>Ben ate $\frac{1}{3}$ of his share of pizza for dinner. If Ben was given $\frac{3}{4}$ of a pizza, how much did he eat?</p> <p>_____</p>
<p>Jackson rode his bicycle $\frac{2}{3}$ of a mile home. There is a stop sign every $\frac{1}{9}$ of a mile. How many stop signs are there on Jackson's ride home?</p> <p>_____</p>	<p>Janie is making cookies using a recipe that calls for $\frac{1}{3}$ cup of sugar. If she only makes $\frac{1}{2}$ of a batch, how much sugar should Janie use?</p> <p>_____</p>	<p>Veronica has $\frac{7}{8}$ yard of fabric to use to make flags. If each flag requires $\frac{1}{4}$ yard of fabric, how many can Veronica make?</p> <p>_____</p>
<p>Marcus had $\frac{5}{8}$ of the released super heroes. If he sold $\frac{1}{2}$ of his collection, what fraction of the released super heroes does Marcus have now?</p> <p>_____</p>	<p>$\frac{3}{8}$ of the students in Cassidy's class are boys. Of those students, $\frac{1}{2}$ are wearing jeans. What fraction of Cassidy's class are boys in jeans?</p> <p>_____</p>	<p>Ronnie lives $\frac{8}{9}$ mile from school. If he walked $\frac{1}{3}$ of the way home, how far did Ronnie walk?</p> <p>_____</p>

Sketch your patty paper models here:

Genevieve... 	Lafayette... 	Ben... 
Jackson... 	Janie... 	Veronica... 
Marcus... 	Cassidy... 	Ronnie... 

Debriefing Questions

1. Look at one of the multiplication models and one of the division models. What is the difference between multiplying and dividing with patty paper?
2. Explain the steps you would take to model $\frac{1}{4} \div \frac{1}{8}$ using patty paper.
3. How does the model for $\frac{1}{2} \cdot \frac{3}{4}$ relate to the solution?

