

Multiplying Fractions Handout

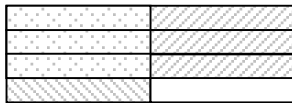
When using a model to represent a multiplication problem, follow these steps.

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

Break a rectangle into the amount of parts given for the first fraction. Then shade in the amount of the first fraction.



Next break the rectangle into the amount of parts given for the second fraction in the opposite direction. Shade in the amount of the second fraction going the opposite direction.



If you look at the rectangle, it has been broken into 8 parts. Of the 8 parts, 3 have been shaded in both directions. SO...

$$\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$$

Use a model to represent each problem.

1. Two brothers, Bill and Bob split a candy bar. Bill gave away $\frac{2}{3}$ of his portion. How much of the candy bar did Bill give away?
2. Susan biked for $\frac{1}{2}$ hour. For $\frac{1}{4}$ of the time she rode on the bike path. How long did she ride on the bike path?
3. The Smith family ordered a pizza. $\frac{1}{2}$ of the pizza had pepperoni. Three people shared the pizza with pepperoni. If all three people had the same amount. How much of the pizza did each of the three people eat?