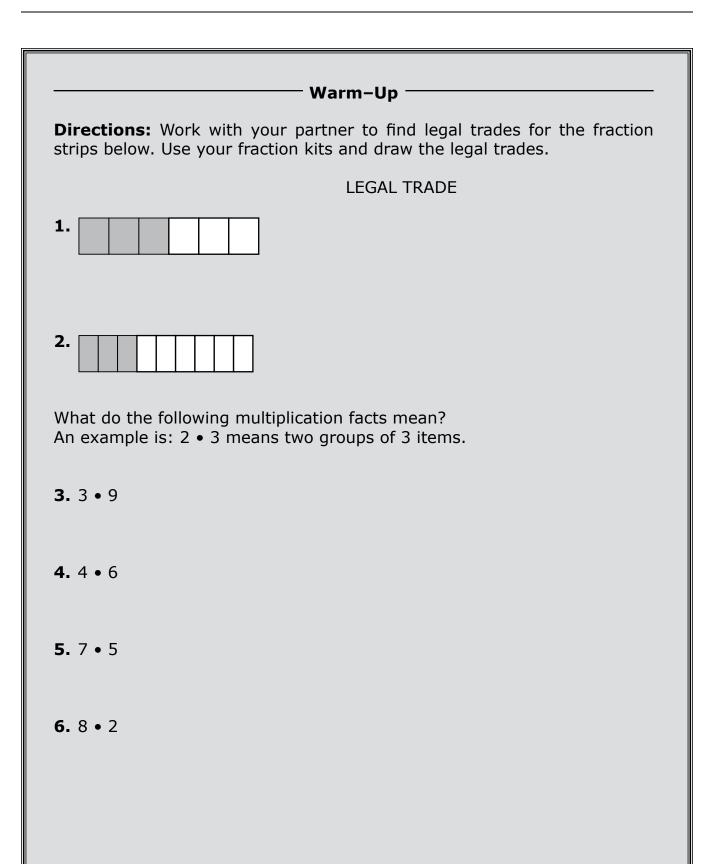
S196

LESSON 20: Multiply Fractions



Directions: Complete the following SOLVE problem with your teacher. You will only complete the S step.

Danielle is working on a design for her art project. The design is made up of rectangles and triangles. There are a total of 24 rectangles in the design, and each rectangle has a width of $\frac{1}{2}$ -inch and a length of $\frac{3}{4}$ -inch. What is the area of each of the rectangles?

S Underline the question. This problem is asking me to find

Directions: Complete this page with your teacher and partner.

Problem	Meaning	Model
1. 3 • $\frac{1}{6}$ =		
2. $\frac{3}{5} \cdot 2 =$		
3. 4 • $\frac{1}{3}$ =		
4. $\frac{1}{4} \cdot 2 =$		
5. $2 \cdot \frac{2}{5} =$		
6. $\frac{2}{6} \cdot 3 =$		

Problem	Meaning	Model
1. $\frac{1}{3} \cdot \frac{3}{4} =$		
2. $\frac{1}{4} \cdot \frac{2}{3} =$		
3. $\frac{2}{6} \cdot \frac{1}{2} =$		
4. $\frac{4}{5} \cdot \frac{1}{2} =$		
5. $\frac{1}{2} \cdot \frac{2}{4} =$		

Directions: Complete this page with your teacher and partner. Simplify all answers.

Problem Meaning Model **1.** $\frac{1}{2} \cdot \frac{3}{5} =$ **2.** $\frac{1}{3} \cdot \frac{2}{4} =$ **3.** $\frac{3}{4} \cdot \frac{1}{3} =$ **4.** $\frac{1}{2} \cdot \frac{2}{3} =$ **5.** 2 • $\frac{1}{8}$ =

Directions: Complete this page with your teacher and partner.

Directions: Complete this page with your partner.

Area Model	Multiplication Problem
6.	$\frac{1}{4} \bullet \frac{2}{3} =$
7.	$\frac{4}{5} \cdot \frac{1}{3} =$

Look at Problem 6: $\frac{1}{4} \cdot \frac{2}{3}$. Work with a partner to figure out how you can solve this problem numerically without the pictures. Write your solution.

Will	this	solution	work	for	Problem	7?	
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How would Pro	oblem 5 be	solved nu	umerically?
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Directions: Complete this page with your partner.

1.
$$\frac{3}{4} \cdot \frac{1}{6} =$$
 2. $\frac{2}{8} \cdot \frac{1}{5} =$

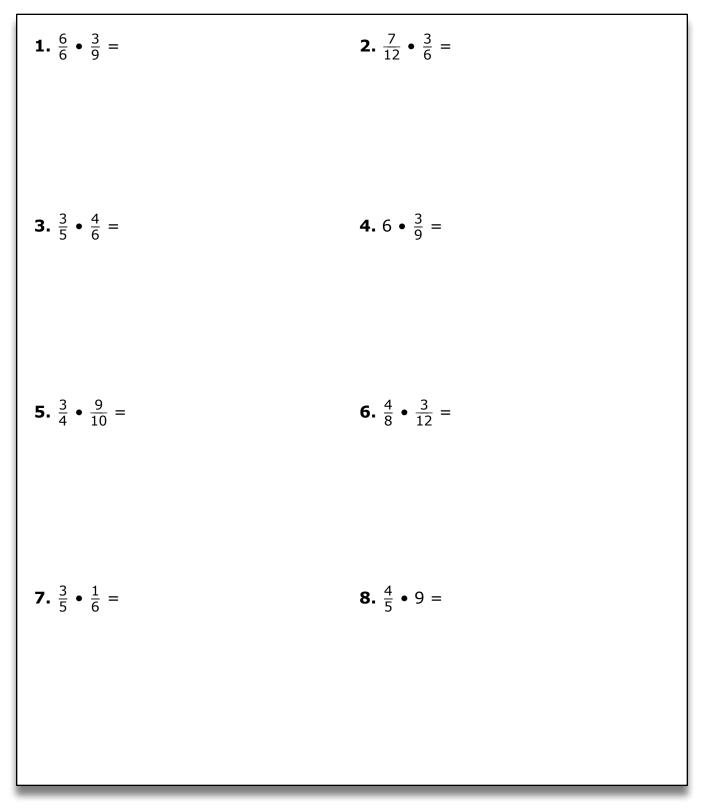
3.
$$\frac{3}{5} \cdot \frac{2}{8} =$$
 4. $\frac{4}{10} \cdot \frac{7}{12} =$

5.
$$2 \cdot \frac{2}{5} =$$
 6. $\frac{1}{3} \cdot 7 =$

7.
$$\frac{5}{6} \cdot 3 =$$
 8. $6 \cdot \frac{2}{3} =$

Directions: Complete the following SOLVE problem with your teacher.

Danielle is working on a design for her art project. The design is made up of rectangles and triangles. There are a total of 24 rectangles in the design, and each rectangle has a width of $\frac{1}{2}$ -inch and a length of $\frac{3}{4}$ -inch. What is the area of each of the rectangles?	ł
S Underline the question. This problem is asking me to find	
O Identify the facts. Eliminate the unnecessary facts. List the necessary facts.	
L Choose an operation or operations. Write in words what your plan of action will be.	
 V Estimate your answer. Carry out your plan. 	
E Does your answer make sense? (Compare your answer to the question.)	
Is your answer reasonable? (Compare your answer to the estimate.)	
Is your answer accurate? (Check your work.) Write your answer in a complete sentence.	



Directions: Complete the following problems. Simplify all answers.

S204

LESSON 20: Multiply Fractions

