Wa	arm	Up
34	70	54
× 62	× 67	× 70

18	79	29
$\times 52$	× 69	$\times 45$

Warm	Up A	nswers
34	70	54
× 62	× 67	× 70
68	490	0
2,040	4,200	3,780
2,108	4,690	3,780
18	79	29
× 52	× 69	× 45
36	711	145
900	4,740	1,160
936	5,451	1,305

Learning Objective: Students will be able to use a visual model and a formal process for multiplying fractions.

Lesson 2.1

October 29, 2014

Essential Question:

What does it mean to multiply fractions?

Lesson 2.1

October 29, 2014

## Lesson Objective:

Students will be able to:

use a visual model and a formal process for multiplying fractions.

# Self-Evaluation Scale

Score	Description
4	I can teach other students how to use a visual model and a formal process for multiplying fractions.
3	I can use a visual model and a formal process for multiplying fractions.
2	I recognize, but still need help to use a visual model and a formal process for multiplying fractions.
1	I do not know how to use a visual model and a formal process for multiplying fractions.

Learning Objective: Students will be able to use a visual model and a formal process for multiplying fractions.

# Activity 1

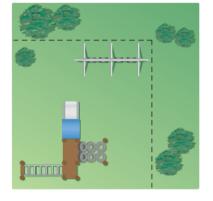
With a partner, work on Activity I on pages 31 of your Big Ideas Record and Practice Journal.

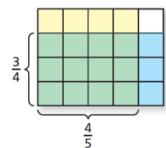
#### ACTIVITY: Multiplying Fractions



Work with a partner. A park has a playground that is  $\frac{3}{4}$  of its width and  $\frac{4}{5}$  of its length. What fraction of the park is covered by the playground?

**Fold** a piece of paper horizontally into fourths and shade three of the fourths to represent  $\frac{3}{4}$ .





**Fold** the paper vertically into fifths and shade  $\frac{4}{5}$  of the paper another color.

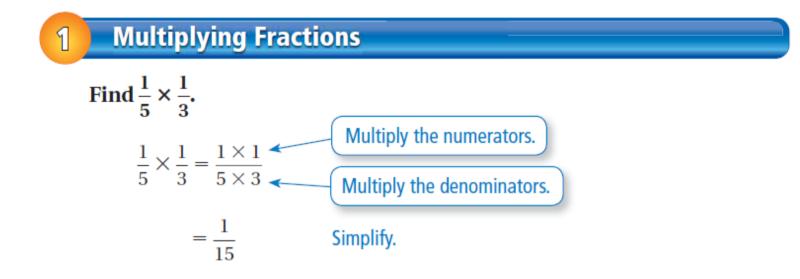
**Count** the total number of squares. This number is the denominator. The numerator is the number of squares shaded with both colors.

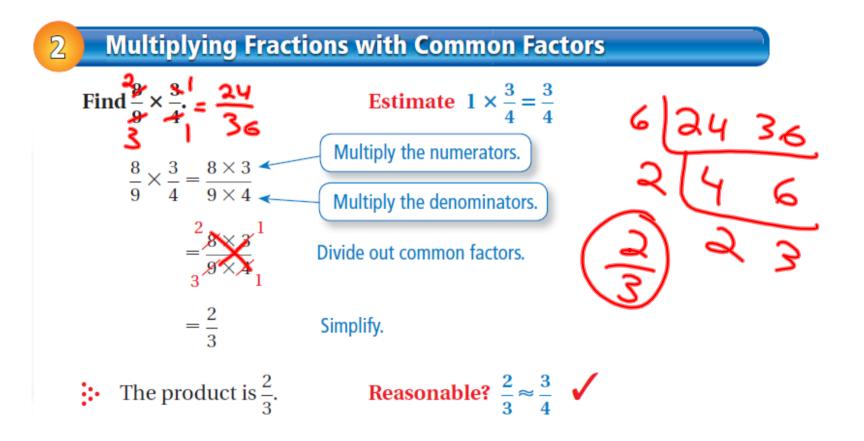


5/5  $\frac{12}{a0}$ 

```
IN YOUR OWN WORDS What does it mean to multiply fractions?
```

**Words** Multiplying Fractions Words Multiply the numerators and multiply the denominators. Numbers  $\frac{3}{7} \times \frac{1}{2} = \frac{3 \times 1}{7 \times 2} = \frac{3}{14}$ Algebra  $\frac{a}{b} \cdot \frac{c}{d} = \frac{a \cdot c}{b \cdot d}$ , where  $b, d \neq 0$ 





1.  $\frac{1}{2} \times \frac{5}{6}$ 

5

Learning Objective: Students will be able to use a visual model and a formal process for multiplying fractions.

### On Your Own

 $\left(\frac{7}{32}\right)$ 

3.

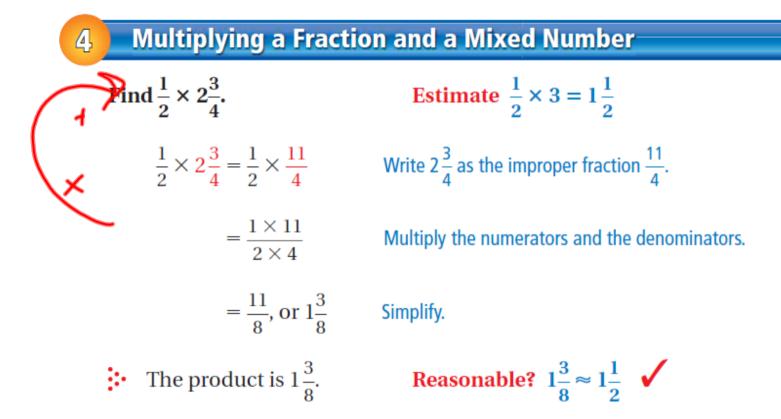
4.

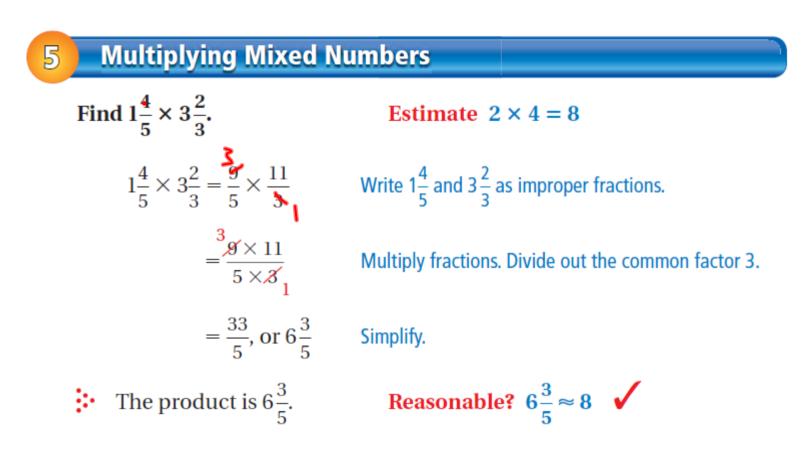
9

Multiply. Write the answer in simplest form.

2.

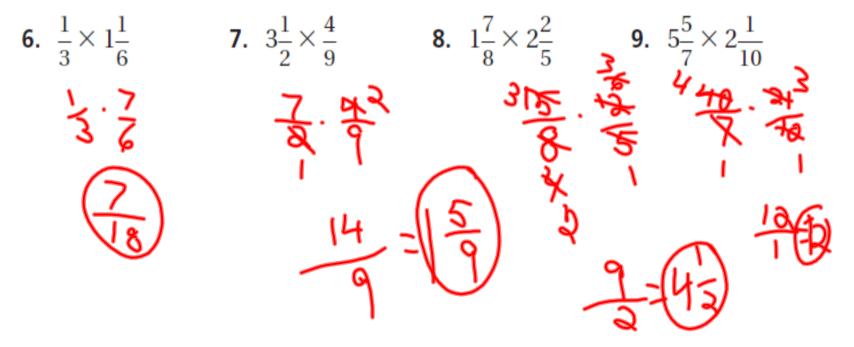
 $\frac{7}{8} \times \frac{1}{4}$ 





### On Your Own

#### Multiply. Write the answer in simplest form.



3-3.12 10 127 - 40 = 40 

# Assignment

Complete problems 8, 14, 18, 19, 35, 39, 40, 41, 54, 55, & 58 on pages 59 - 61 in your Big Ideas Text Book.

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Lesson 2.1

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### Homework

# In your Big Ideas Record and Practice Journal page 34.