WarmUp

Find the product.

8.
$$15 \times 12 =$$

7.
$$8 \cdot 12 =$$
 _____ **8.** $15 \times 12 =$ ____ **9.** $(13)(20) =$ _____

11.
$$13 \times 6 =$$

11.
$$13 \times 6 =$$
 _____ **12.** $(11)(8) =$ _____ **13.** $19 \cdot 21 =$ _____

16.
$$26 \times 1 =$$

15.
$$0 \cdot 114 =$$
 16. $26 \times 1 =$ **17.** $4 \cdot 10 \cdot 8 =$ ____

EssentialQuestion

What does it mean to mulply fracons?

Lesson 2.1 October 7, 2013

LessonTarget

To be able to:

• use a visual model and a formal process for mulplying fracons.

Score	Description
4	I can teach other students how to use a visual model and a formal process for mulplying fracons.
3	I can use a visual model and a formal process for mulplying fracons.
2	I recognize a visual model and a formal process for mulplying fracons.
1	I do not know how to use a visual model and a formal process for mulplying fracons.

Activity1

With a partner, complete Acvity 1 on page 31 in your Big Ideas Record and Pracce Journal.

Activity2

With a partner, complete Acvity 2 on page 32 in your Big Ideas Record and Pracce Journal.

1 Multiplying Fractions

Find
$$\frac{1}{5} \times \frac{1}{3}$$
.

$$\frac{1}{5} \times \frac{1}{3} = \frac{1 \times 1}{5 \times 3}$$
Multiply the numerators.

$$= \frac{1}{15}$$
Simplify.

2 Multiplying Fractions with Common Factors

Find
$$\frac{8}{9} \times \frac{3}{4}$$
.

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

Multiply the numerators.

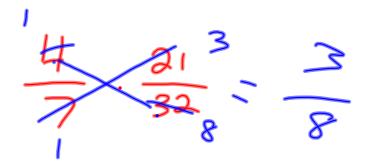
Multiply the denominators.

Divide out common factors.

 $=\frac{2}{3}$

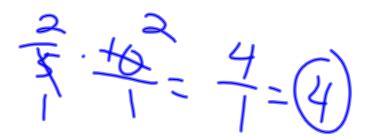
Simplify.

 \therefore The product is $\frac{2}{3}$. Reasonable? $\frac{2}{3} \approx \frac{3}{4}$



October 7, 2013 Period 5 Lesson 2.1

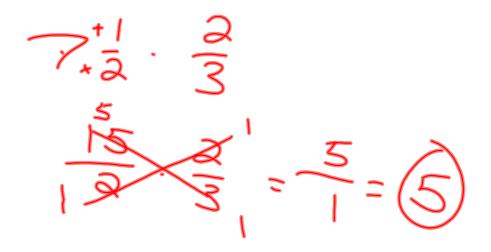
MultiplyingFractions byWholeNumbers

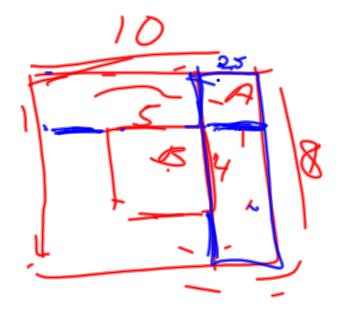


Multiplying Mixed Fractions

Assignment

In your Big Ideas text book, do numbers 10 - 14 on page 59 & numbers 30 - 33, 47 - 49, 54 on page 60 & number 56 - 57 on page 61.





EssentialQuestion

What does it mean to mulply fracons?

Score	Description
4	I can teach other students how to use a visual model and a formal process for mulplying fracons.
3	I can use a visual model and a formal process for mulplying fracons.
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Homework

Big Ideas Record and Pracce Journal Page 34 October 7, 2013 Period 5 Lesson 2.1