Lesson 2.1

October 24, 2013

WarmUp

Find the product.

7.
$$8 \cdot 12 =$$
 _____ **8.** $15 \times 12 =$ _____

11.
$$13 \times 6 =$$

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

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

16.
$$26 \times 1 =$$

Lesson 2.1 October 24, 2013

EssentialQuestion

What does it mean to mulply fracons?

Lesson 2.1 October 24, 2013

LessonTarget

To be able to:

use a visual model for mulplying fracons.

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

Activity1

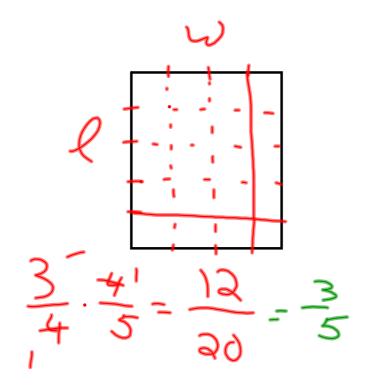
With a partner, complete Acvity 1 on page 31 in your Big Ideas Record and Pracce Journal.

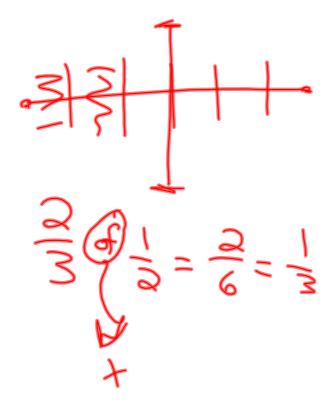
Activity2

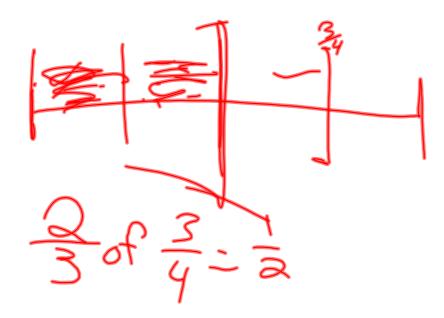
With a partner, complete Acvity 2 on page 32 in your Big Ideas Record and Pracce Journal.

InductiveReasoningTable

With a partner, complete the Inducve Reasoning Table on page 32 in your Big Ideas Record and Pracce Journal.







$$\frac{3}{3} = \frac{1}{3}$$
 $\frac{3}{3} = \frac{3}{3}$
 $\frac{3}{3} = \frac{3}{3}$

$$\frac{3}{5} \times \frac{1}{3} = \frac{3}{15}$$

WarmUp

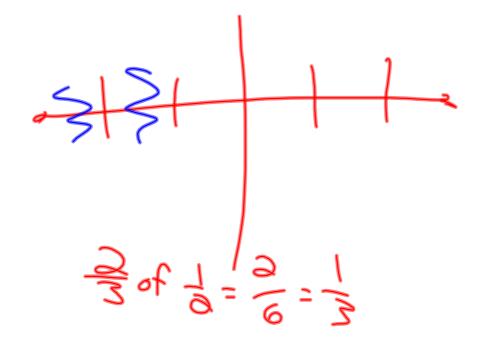
Find the sum or difference.

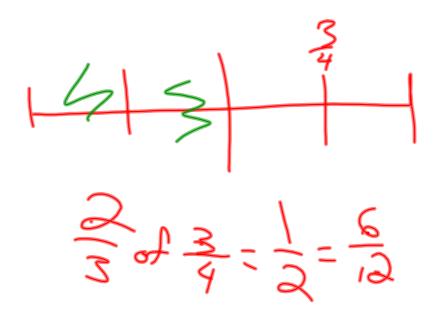
9.
$$94 + 0 =$$

8.
$$21 + 7 =$$
 _____ **9.** $94 + 0 =$ ____ **10.** $104 + 142 =$ ____ **11.** $1147 + 234 =$ ____

16.
$$941 - 0 =$$

16.
$$941 - 0 =$$
 _____ **17.** $12 + 5 + 8 =$ ____ **18.** $31 + 1 + 1 =$ ____ **19.** $123 + 41 + 18 =$ ____



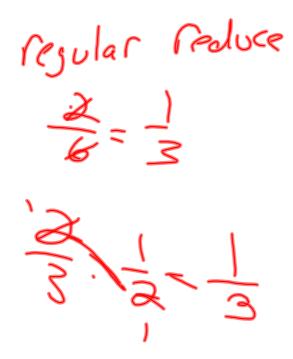


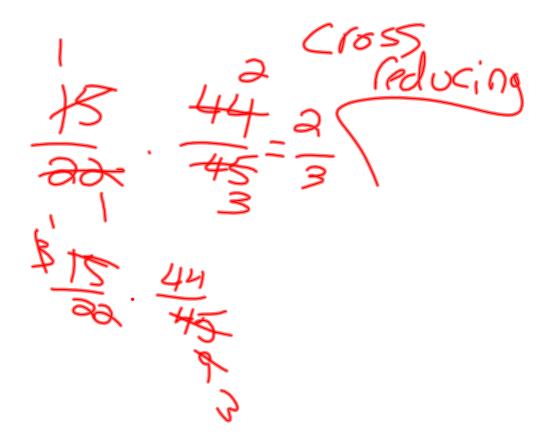
1 Multiplying Fractions

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

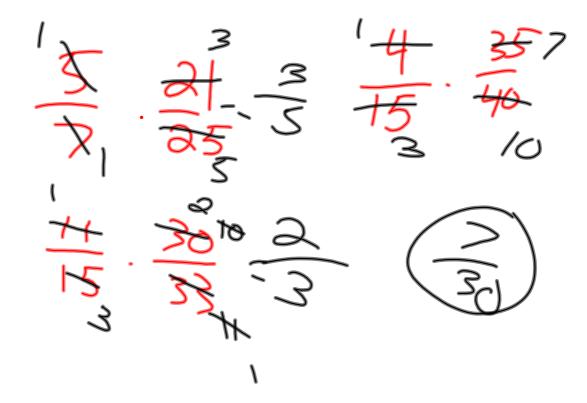
$$\frac{1}{5} \times \frac{1}{3} = \frac{1 \times 1}{5 \times 3}$$
Multiply the numerators.

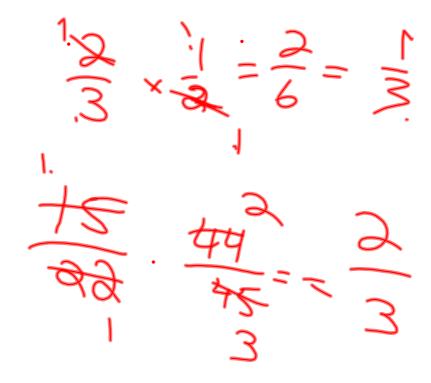
$$= \frac{1}{15}$$
Simplify.





$$\frac{9}{10} \cdot \frac{7}{8} = \frac{63}{80}$$





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.

$$= \frac{8 \times 3}{9 \times 4}$$

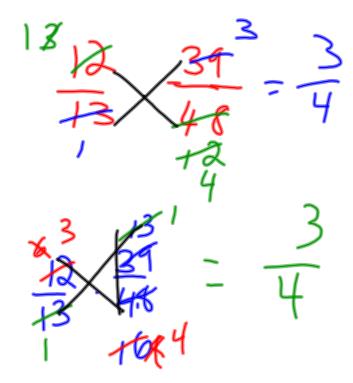
Multiply the denominators.

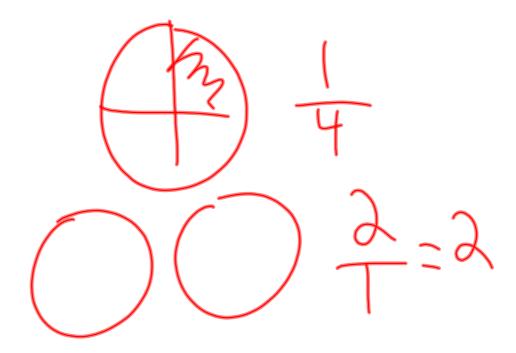
Divide out common factors.

$$= \frac{2}{3}$$

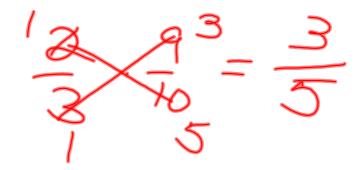
Simplify.

Arr The product is $rac{2}{3}$. Reasonable? $rac{2}{3} \approx rac{3}{4}$

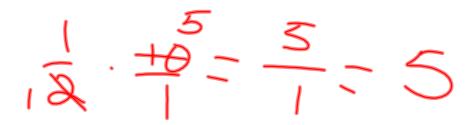




$$\frac{1}{3} \cdot \frac{1}{5} = \frac{1}{15}$$



MultiplyingFractions byWholeNumbers



Multiplying Mixed Fractions

$$\frac{5}{5} \cdot \frac{3}{34} \cdot \frac{39}{39} = \frac{195}{3}$$

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.

Lesson 2.1 October 24, 2013

EssentialQuestion

What does it mean to mulply fracons?

Homework

Big Ideas Record and Pracce Journal Page 34