WarmUp

EssentialQuestion

How can you divide by a fracon?

LessonTarget

To be able to:

use a formal rule to divide by a fracon.

Self-EvaluationRubric

Score	Description	
4	I can teach other students how to use a visual model and a formal rule to divide by a fracon.	
3	I can use a visual model and a formal rule to divide by a fracon.	
2	I recognize a visual model and a formal rule to divide by a fracon.	
1	I do not know how to use a visual model and a formal rule to divide by a fracon.	

Reciprocals

Two numbers whose product is one.

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

Invert

To put upside down or in the opposite posion, order, or arrangement.

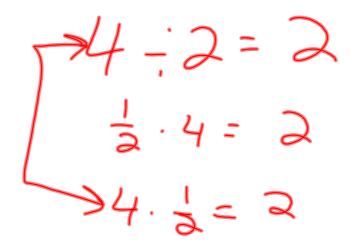


1 Writing Reciprocals

	Original Number	Fraction	Reciprocal	Check
a.	$\frac{3}{5}$	$\frac{3}{5}$	$\frac{5}{3}$	$\frac{3}{5} \times \frac{5}{3} = 1$
b.	$\frac{9}{5}$	$\frac{9}{5}$	$\frac{5}{9}$	$\frac{9}{5} \times \frac{5}{9} = 1$
c.	2	$\frac{2}{1}$	$\frac{1}{2}$	$\frac{2}{1} \times \frac{1}{2} = 1$

TryIt!

Try numbers 1 - 4 on page 64 of your Big Ideas Text Book.



Division =
Mult. of the
Reciprocal

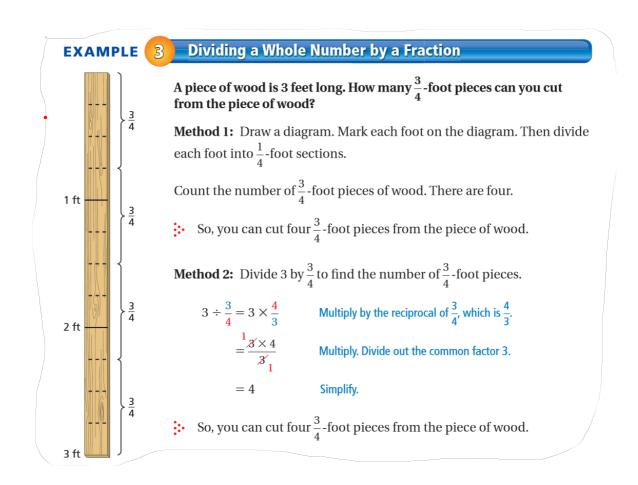
2 Dividing a Fraction by a Fraction

Find
$$\frac{1}{6} \div \frac{2}{3}$$
.

$$\frac{1}{6} \div \frac{2}{3} = \frac{1}{6} \times \frac{3}{2}$$
Multiply by the reciprocal of $\frac{2}{3}$, which is $\frac{3}{2}$.

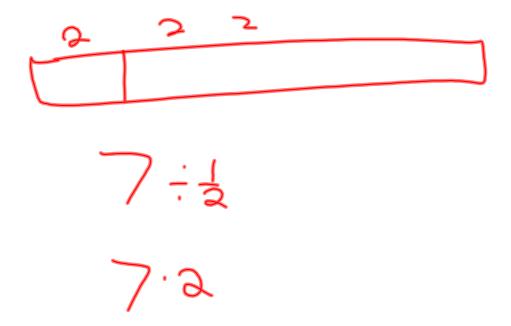
$$= \frac{1 \times 3}{8 \times 2}$$
Multiply fractions. Divide out the common factor 3.

$$= \frac{1}{4}$$
Simplify.



TryIt!

Try numbers 7 & 9 on page 65 of your Big Ideas Text Book.



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