Number

Activity 23 Assessment
Dividing Fractions

Dividing Fractions

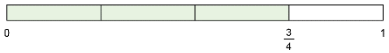
Divides a whole number by a fraction or vice versa

$\frac{3}{4} \div 3$

"I know that $\frac{3}{4}$ is made up of

3 one-fourth pieces.

So, when I divide by 3, I get $\frac{1}{4}$.



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

Divides a fraction by another fraction, without needing to partition a 'left-over' portion

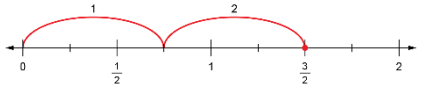
$\frac{3}{2} \div \frac{3}{4}$

"I want to know how many three-fourths are in 3 halves.
I can start by drawing a number line,

partitioning it in fourths, marking $\frac{3}{2}$

and making hops of $\frac{3}{4}$ until I get

there.



It takes 2 hops, so $\frac{3}{2} \div \frac{3}{4} = 2$."

Divides a fraction by another fraction, with partitioning of a 'left-over' portion

$\frac{2}{3} \div \frac{1}{2}$

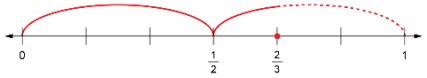
"I drew a number line from 0 to 1 and

marked $\frac{2}{3}$ on it. I also added markings

for sixths because I know that $\frac{1}{2}$ is the

same as $\frac{3}{6}$ and $\frac{2}{3}$ is the same as $\frac{4}{6}$.

I made hops that were $\frac{1}{2}$ unit long.



From my model, I can see that it

takes $1\frac{1}{3}$ hops to get to $\frac{2}{3}$,

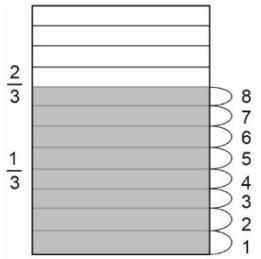
so $\frac{2}{3} \div \frac{1}{2} = 1\frac{1}{3}$."

Represents and solves problems that involve fraction division

Blake knows that it takes $\frac{1}{12}$ of a jug to fill a glass with juice.
The juice jug is $\frac{2}{3}$ full.

How many glasses can Blake fill?

"I drew a jug, showed the juice and the amount for each glass, and counted the number of glasses.



From my drawing, Blake can fill 8 glasses."

Observations/Documentation

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