



Dividing fractions

How many fit inside?

- Today: divide a fraction by a fraction — and know what the answer means.

How many $\frac{1}{4}$ -cup scoops are in 3 cups?

- Picture the 3 cups. Picture a $\frac{1}{4}$ -cup scoop.

Turn & talk: will the answer be more than 3, or less?

Division asks: how many of these fit in that?

- $\frac{1}{2} \div \frac{1}{4} =$ how many $\frac{1}{4}$ s fit in $\frac{1}{2}$? $\rightarrow 2$
- Dividing by a number LESS than 1 makes the answer BIGGER. That is correct.

Keep · Change · Flip

- **Keep** the first fraction. **Change** $\div$ to $\times$. **Flip** the second fraction.
- $\frac{1}{2} \div \frac{1}{4} = \frac{1}{2} \times \frac{4}{1} = \frac{4}{2} = 2$

Flip the SECOND one — never the first.

Whole numbers play too

- $5 \div 2/3$: write 5 as $5/1 \rightarrow 5/1 \times 3/2 = 15/2$
- $2/3 \div 4$: write 4 as $4/1 \rightarrow 2/3 \times 1/4 = 1/6$

Flip whichever one is the divisor.

Your turn

- Compute $\frac{3}{4} \div \frac{1}{8}$.
- Thumbs up when you have it.

Back to the scoops

- $3 \div \frac{1}{4} = 3 \times 4 = 12$ scoops
- More than 3 — because each scoop is smaller than a cup.

Now you

- → In-class practice sheet