



# Divide Whole Numbers by Decimals

Let's divide whole numbers by decimals.

## Warm-up

### True or False: Tenths and Hundredths

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $6 \div 0.01 = 60$
- $6 \div 0.1 < 6 \div 0.01$
- $6 \div 0.01 = 60 \div 0.1$

## Activity 1

### Same Divisor, Different Dividend

1. Find the value of each expression. Explain or show your reasoning.

a.  $1 \div 0.2$

b.  $2 \div 0.2$

c.  $3 \div 0.2$

d.  $4 \div 0.2$

2. Find the value of each expression. Explain or show your reasoning.

a.  $1 \div 0.02$

b.  $2 \div 0.02$

c.  $3 \div 0.02$

d.  $4 \div 0.02$

3. What patterns do you notice?

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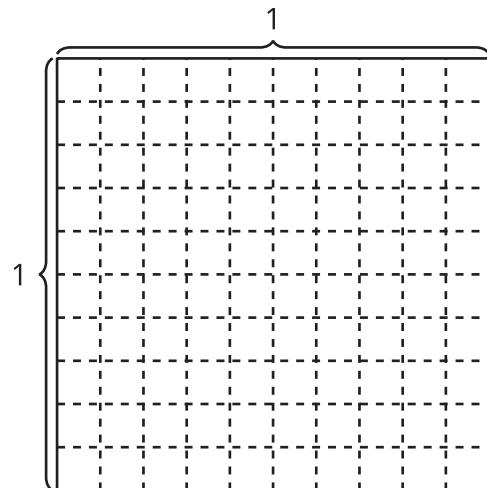
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## Activity 2

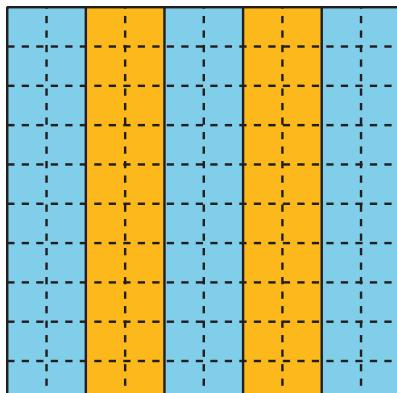
### Strategies with Larger Dividends

- Find the value of the expression. Explain or show your reasoning. Use a diagram if it is helpful.

$$12 \div 0.2$$



- Tyler uses this diagram and explanation to justify why  $12 \div 0.2 = 60$ .



$$12 \div 0.2 = 60$$

There are 5 groups of 0.2 in 1 and there are 12 so that is 12 groups of 5.

Explain how the expression  $12 \times (1 \div 0.2)$  relates to Tyler's reasoning.

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3. Find the value of each expression.

a.  $14 \div 0.5$

b.  $5 \div 0.25$