## Lesson 22: Divide Whole Numbers by 0.1 and 0.01

* Let’s divide whole numbers by one tenth and one hundredth.

### Warm-up: Number Talk: Remember Division of Unit Fractions

Find the value of each expression mentally.

* $1÷\frac{1}{10}$
* $2÷\frac{1}{10}$
* $1÷0.01$
* $2÷0.01$

### 22.1: Patterns in Dividing by Decimal Units

1. Find the value of each expression. Explain or show your reasoning. Use a diagram if it is helpful.
	1. $3÷0.1$
	2. $3÷0.01$
	3. $4÷0.1$
	4. $4÷0.01$
2. What patterns do you notice?

### 22.2: Divide Whole Numbers by Decimals

1. Describe how you can find the value of any whole number divided by 0.1. Use a diagram if it is helpful.
2. Describe how you can find the value of any whole number divided by 0.01. Use a diagram if it is helpful.







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