## Lesson 1: What is One Thousandth?

* Let’s make sense of thousandths.

### Warm-up: Estimation Exploration: One Tiny Piece

What fraction of the whole picture is a single square tile?



Record an estimate that is:

|  |  |  |
| --- | --- | --- |
| too low | about right | too high |
| $$ | $$ | $$ |

### 1.1: What Do You Know About Thousandths?

1. What do you know about 1 tenth?
2. What do you know about 1 hundredth?
3. What do you know about 1 thousandth?

### 1.2: Represent Numbers on a Hundredths Grid

1. The grid represents 1. What does the shaded region represent?
* Be prepared to explain your reasoning.
* 
1. The grid represents 1. What does the shaded region represent?
* Be prepared to explain your reasoning.
* 
1. How many of the small rectangular pieces (one of them is shaded) are there in the unit square?
* Explain or show your thinking.
* 

| 1. Fraction
 | * Decimal
 |
| --- | --- |
| * $\frac{1}{10}$
 | * 0.1
 |
| * $\frac{1}{100}$
 | * 0.01
 |
| * $\frac{1}{1,000}$
 | * ?
 |

* How do you think we write the number one thousandth as a decimal? Explain your reasoning.



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