Unit 5, Lesson 3

Thousandths in Expanded Form

Let's represent thousandths.

Warm-up

Which Three Go Together: Different Ways to Express a Decimal Number

Which 3 go together?

A

$26 \div 100$

B

0.26

C

26×0.001

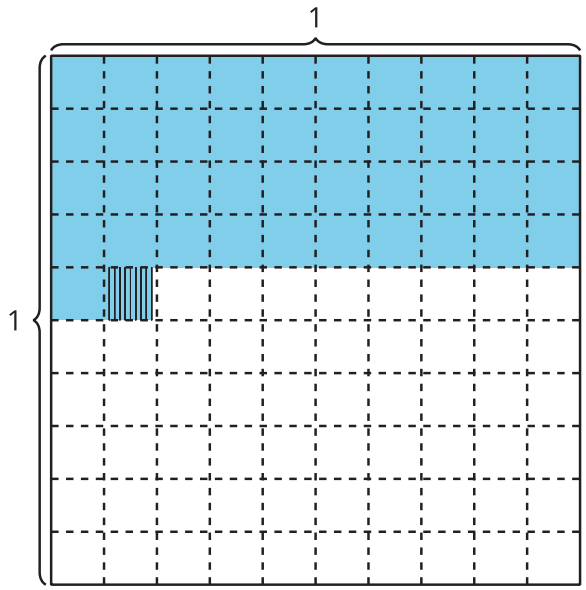
D

$(2 \times 0.1) + (6 \times 0.01)$

Activity 1

Expanded Form

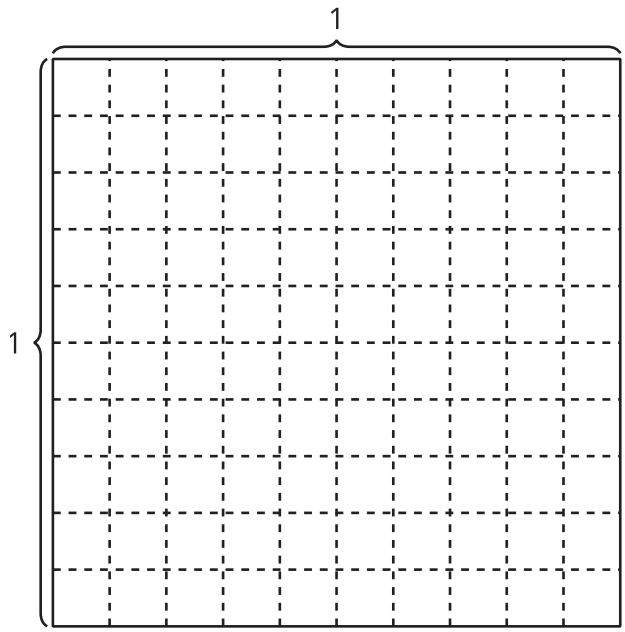
1. a. Explain or show why the shaded region represents $(4 \times 0.1) + (1 \times 0.01) + (9 \times 0.001)$.



b. What decimal number represents the shaded region?

2. a. Shade the diagram to represent $(8 \times 0.1) + (3 \times 0.01) + (5 \times 0.001)$.

   b. Write the number $(8 \times 0.1) + (3 \times 0.01) + (5 \times 0.001)$ in decimal notation.



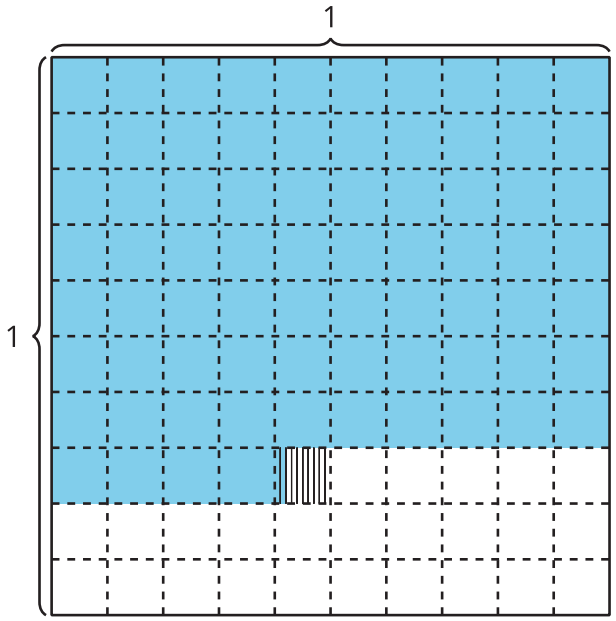
3. Mai says the decimal 0.105 represents $(1 \times 0.1) + (5 \times 0.01)$. Do you agree?

Activity 2

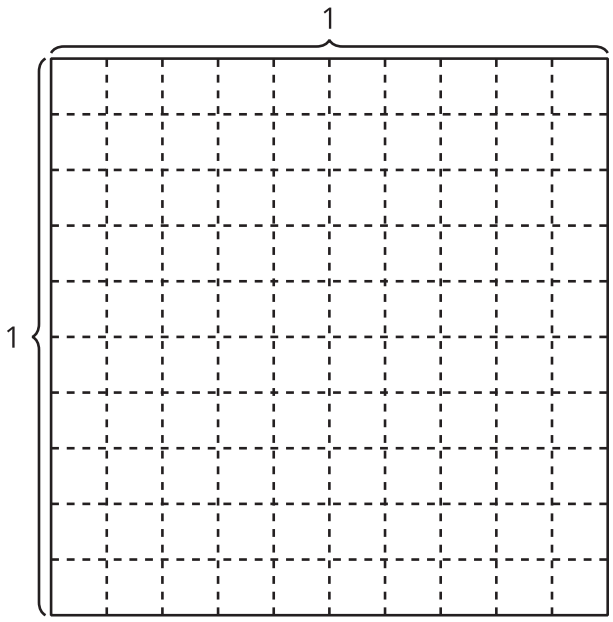
Decimal Numbers in Numerous Ways

Represent each number in as many ways as you can.

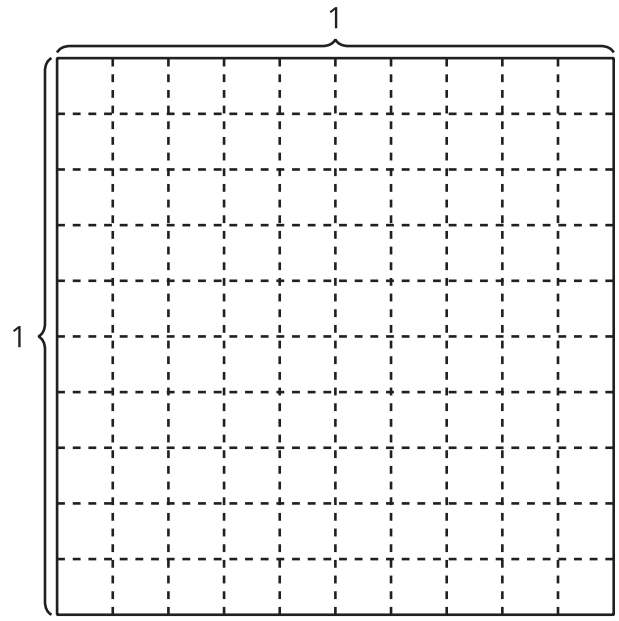
1.



2. $\frac{477}{1{,}000}$



3. one hundred thirty-six thousandths



4. $(3 \times 0.1) + (6 \times 0.01) + (8 \times 0.001)$

