Represent Unit Fraction Multiplication
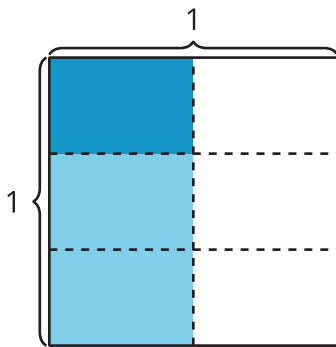
Let's write expressions to represent multiplication of unit fractions.

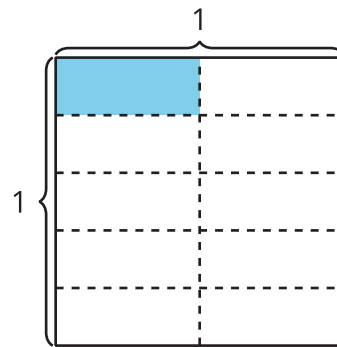### Warm-up

Which Three Go Together: Diagrams
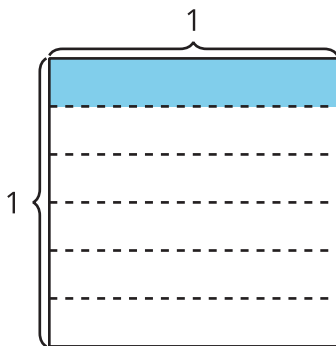
Which 3 go together?

A

B

C

D

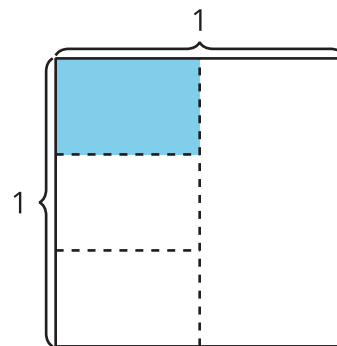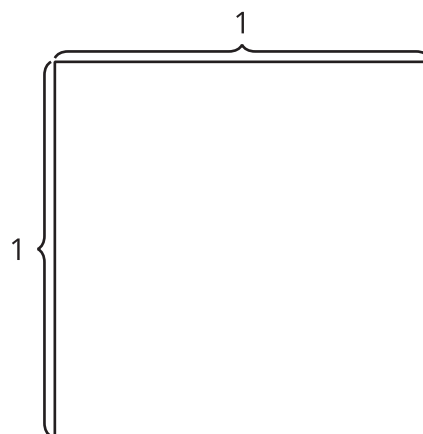## Interpret Diagrams

1. Show $\frac{1}{3}$ of the square.

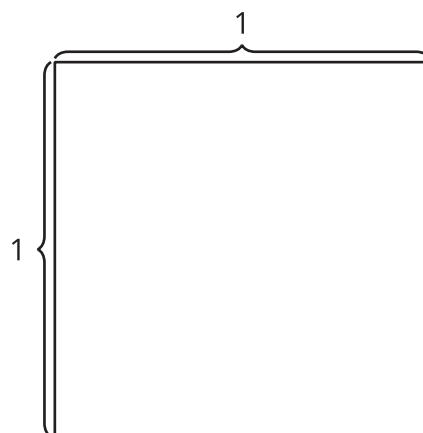   Shade $\frac{1}{4}$ of $\frac{1}{3}$ of the square.

   How much of the whole square is shaded?

2. Show $\frac{1}{4}$ of the square.

   Shade $\frac{1}{3}$ of $\frac{1}{4}$ of the square.

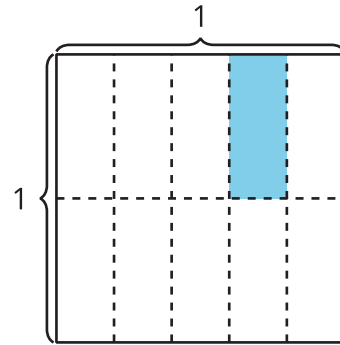   How much of the whole square is shaded?

3. How are the diagrams alike? How are they different?
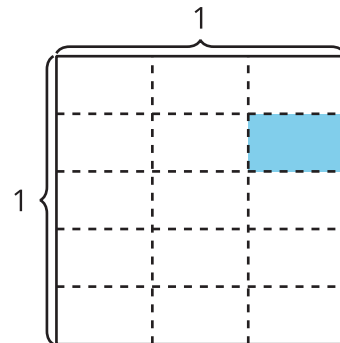
Write an Expression

Priya shaded part of a square.

1. How does the expression $\frac{1}{5} \times \frac{1}{2}$ represent the area of the shaded part? Explain or show your reasoning.

2. How does the expression $\frac{1}{2} \times \frac{1}{5}$ represent the area of the shaded part? Explain or show your reasoning.

3. Write a multiplication expression to represent the area of the shaded piece. Explain or show your reasoning.

4. How much of the whole square is shaded?