Are All Pieces Created Equal?

Let's make halves, thirds, and fourths in different ways.

Warm-up

Number Talk: 5 Ones

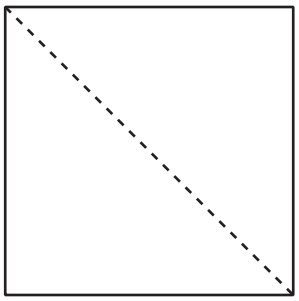
Find the value of each expression mentally.

- $25 - 15$
- $40 - 15$
- $65 - 25$
- $60 - 35$

Activity 1

Make Quarters and Halves

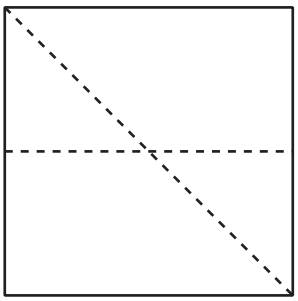
Lin partitions this square into quarters. She starts by splitting the square into halves.



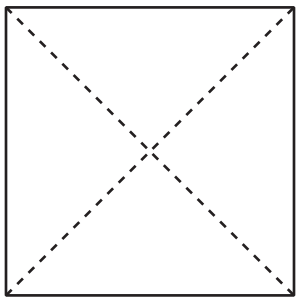
After she draws the first line, she tries 3 different ways to make fourths.

1. Which shape shows fourths or quarters? Explain your reasoning.

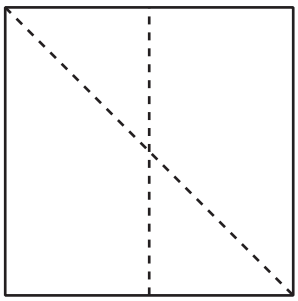
A



B

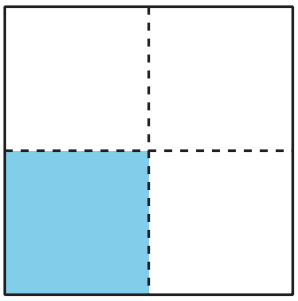


C



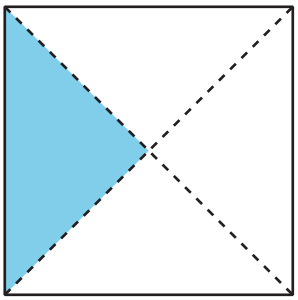
2. Name the shaded piece.

A



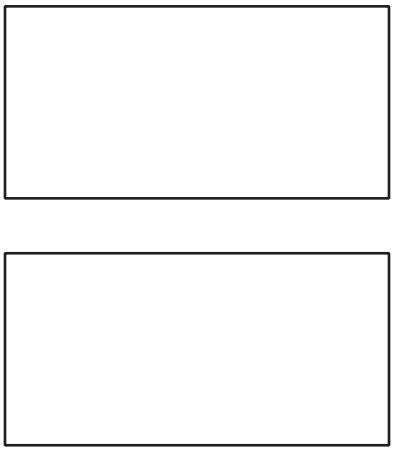
Shape A has a _____ shaded.

B

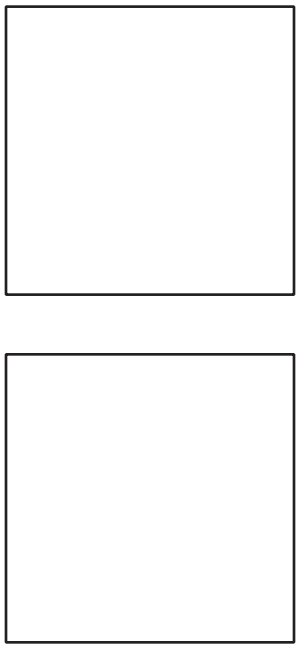


Shape B has a _____ shaded.

3. Show 2 different ways to partition the rectangle into quarters or fourths. Shade a fourth of each rectangle.



4. Show 2 different ways to partition the square into halves. Shade **half** of each square.

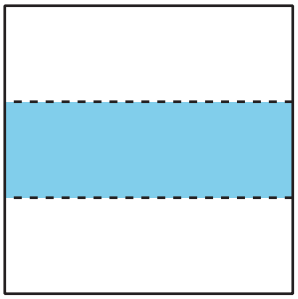


Activity 2

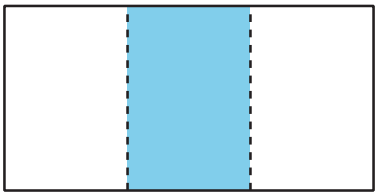
Make Equal-Size Pieces

1. Lin, Mai, and Andre are asked to shade a third of a shape.

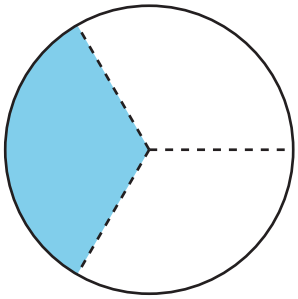
Lin



Mai

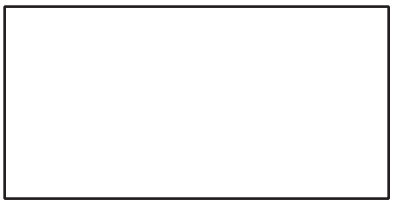


Andre



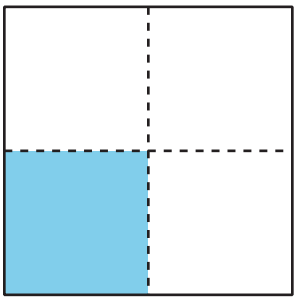
Do all their shapes show a third shaded? Explain your reasoning.

2. Partition the rectangle into thirds. Shade a third of the shape.

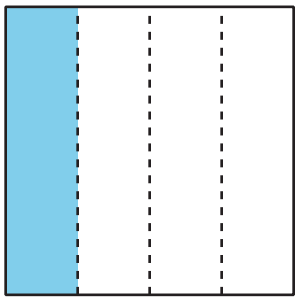


3. Diego's dad makes 2 square pans of cornbread. He cuts the pans into pieces for his family.

Diego's brother



Diego



Diego's little brother is upset because he thinks his piece of cornbread is smaller than Diego's. Do you agree? Explain your reasoning.