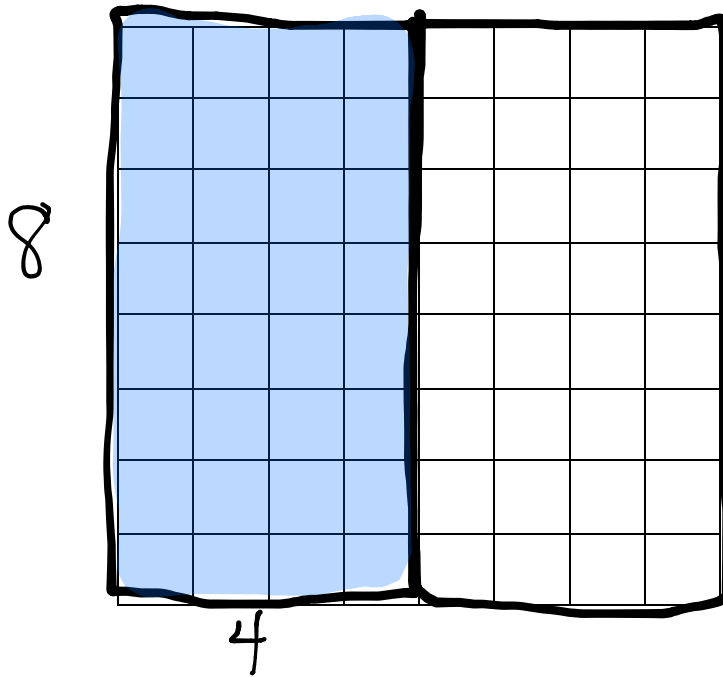


Name _____

Date _____

1. Use the grid to answer the questions below.

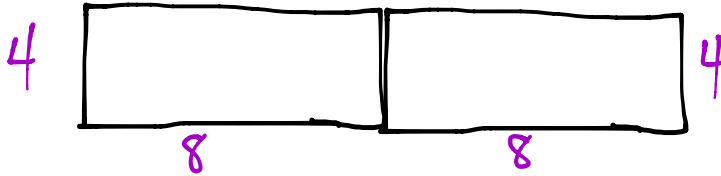


- Draw a line to show how to divide the grid into 2 equal rectangles. Shade in 1 of the rectangles.
- Label the side lengths of each rectangle.
- Write an equation to show the total area of the 2 rectangles.

$$(8 \times 4) \times 2 \quad \text{or} \quad 2 \times (8 \times 4)$$

$$\text{or} \quad (8 \times 4) + (8 \times 4)$$

2. Alexa cuts out the 2 equal rectangles from Problem 1(a) and puts the two shorter sides together.
- a. Draw Alexa's new rectangle and label the side lengths below.



- b. Find the total area of the new, longer rectangle.

$$(4 \times 8) \times 2 = 32 \times 2 \\ = 64 \text{ sq. units}$$

or

$$(4 \times 8) + (4 \times 8) \\ 32 + 32 \\ 64 \text{ sq. units}$$

- c. Is the area of the new, longer rectangle equal to the total area in Problem 1(c)? Explain why or why not.

The area of the new, longer rectangle is equal to the square in Problem 1(c) because both figures use 64 square tiles to make them.