



Multiply 2 Two-Digit Numbers

Let's multiply 2 two-digit numbers.

Warm-up

Number Talk: Extra Groups

Find the value of each expression mentally.

- 20×60

- 21×60

- 20×62

- 19×60

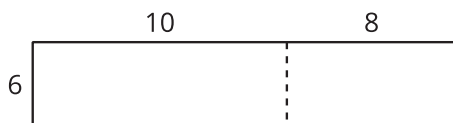


Activity 1

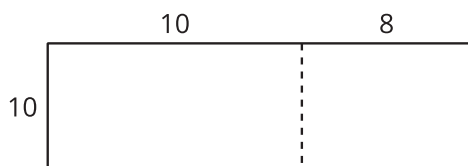
Two by Two

- For each diagram, write a multiplication expression that the diagram can represent. Then find the value of the expression. Use equations to explain or show your reasoning.

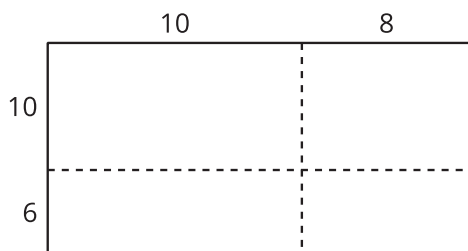
a.



b.



c.



- How are these diagrams alike? How are they different? Discuss with your partner.
- Use a diagram to find each product.
 - 13×21
 - 25×46

Activity 2

Decompose by Place Value

These diagrams could be used to find the value of 49×57 .

Diagram A

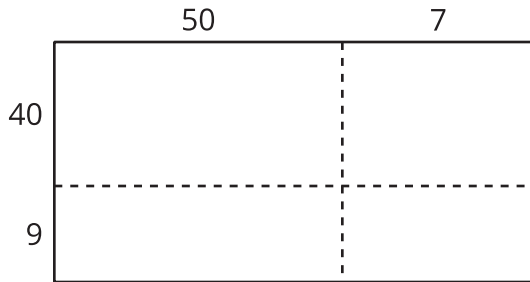
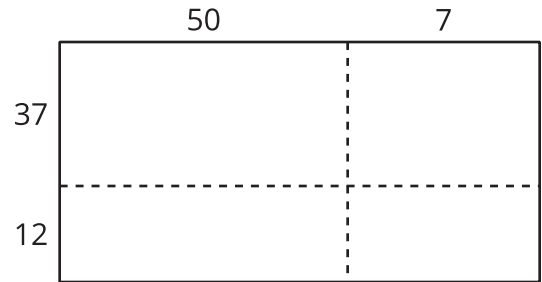


Diagram B



1. Which diagram is more helpful when finding the value of 49×57 ? Why?

2. Use a diagram to find each product.

◦ 49×57

◦ 29×55