Unit 6, Lesson 6

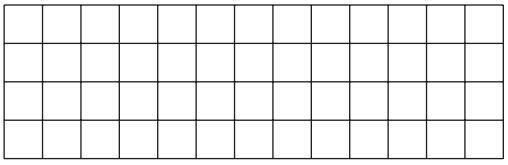
Multiply Two-Digit Numbers and One-Digit Numbers

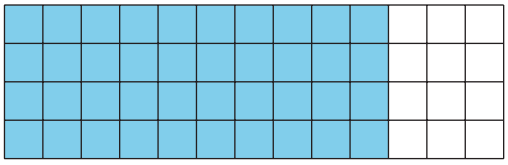
Let's multiply two-digit and one-digit numbers.

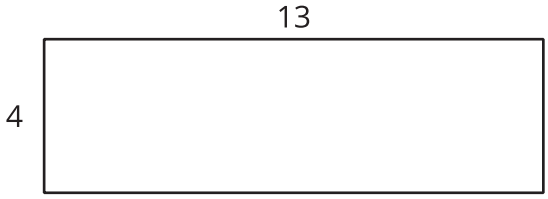
Warm-up

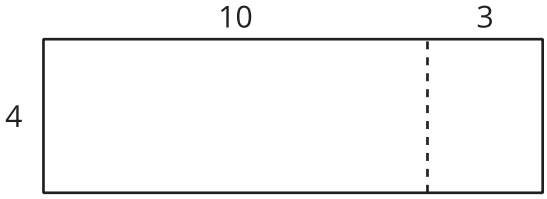
Notice and Wonder: With and Without a Grid

What do you notice? What do you wonder?





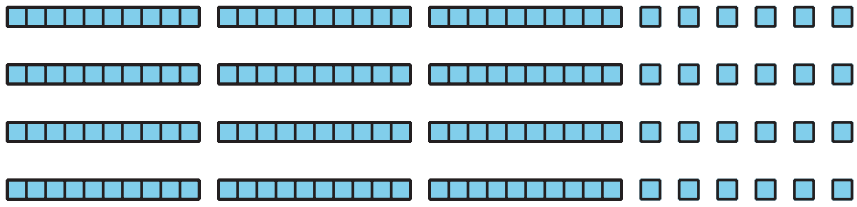




Activity 1

Tyler's Diagrams

1. Tyler uses this base-ten diagram to find the value of 4×36.



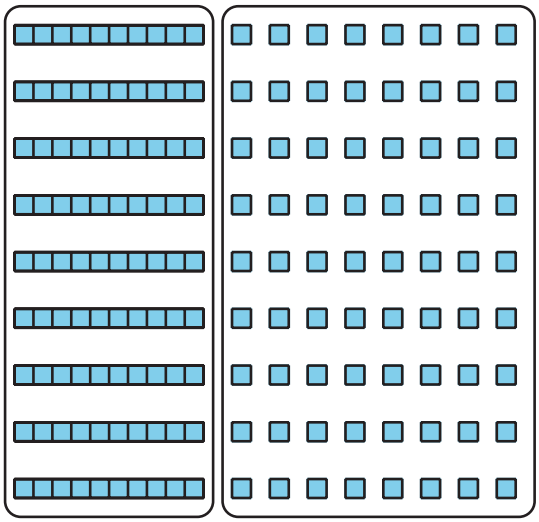
   a. Where is the 36 in Tyler's diagram?

   b. Where is the 4 in his diagram?

   c. What is the value of 4×36?

2. Tyler makes a diagram to find the value of 9×18.

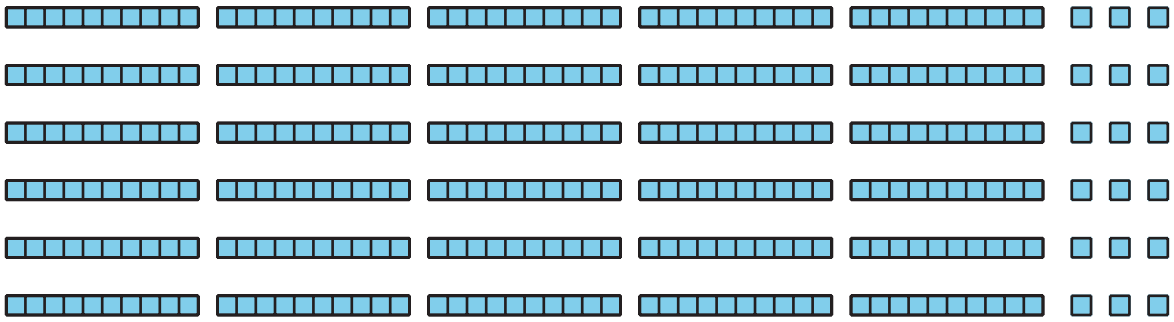
   Explain or show how his diagram helps him find the value of 9×18.



Activity 2

Two Kinds of Diagrams

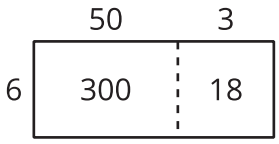
1. Priya draws a base-ten diagram to multiply 6×53. She says it shows that the product can be found by adding 300 and 18.



   a. Where do you see 6 and 53 in Priya's diagram?

   b. Where do you see 300 and 18 in her diagram? What do they represent?

2. Han draws this diagram to multiply 6×53:



   Where do you see 300 and 18 in his diagram? What do they represent?

3. Which diagram do you prefer for multiplying 6×53: Han's way or Priya's way? Explain your reasoning.

4. Find the value of 6×53.

5. Draw a diagram to represent each multiplication expression. Then find the value of each product.

   a. 6×48

   b. 9×67