

Grade 4 Unit 6

Lesson 6

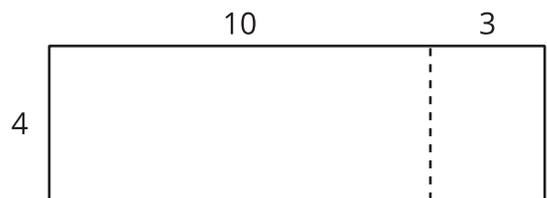
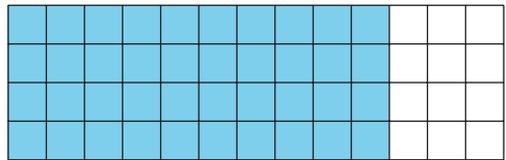
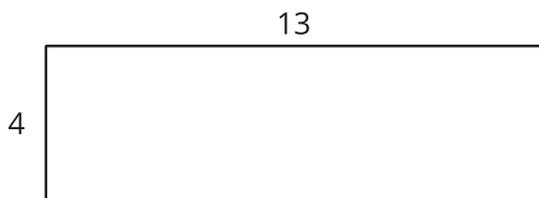
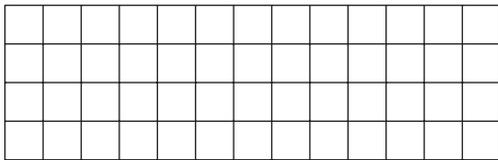
CC BY 2021 Illustrative Mathematics®

Unit 6 Lesson 6: Multiply Two-digit Numbers and One-digit Numbers

WU Notice and Wonder: With and Without a Grid (Warm up)

Student Task Statement

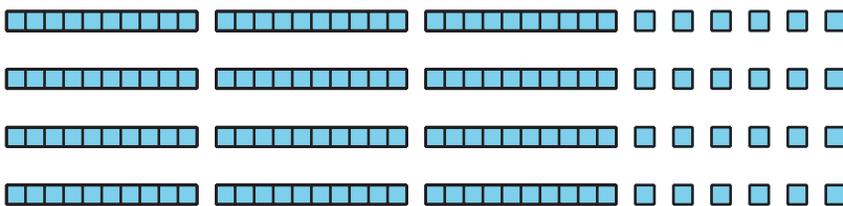
What do you notice? What do you wonder?



1 Tyler's Diagrams

Student Task Statement

1. To find the value of 4×36 , Tyler uses a base-ten diagram, as shown here.

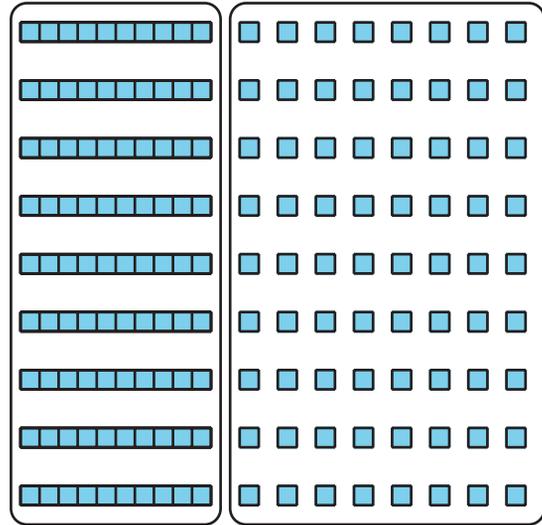


a. Where is the 36 in Tyler's diagram?

- b. Where is the 4 in Tyler's diagram?
- c. What is the value of 4×36 ?

2. Here is a diagram Tyler made to find the value of 9×18 .

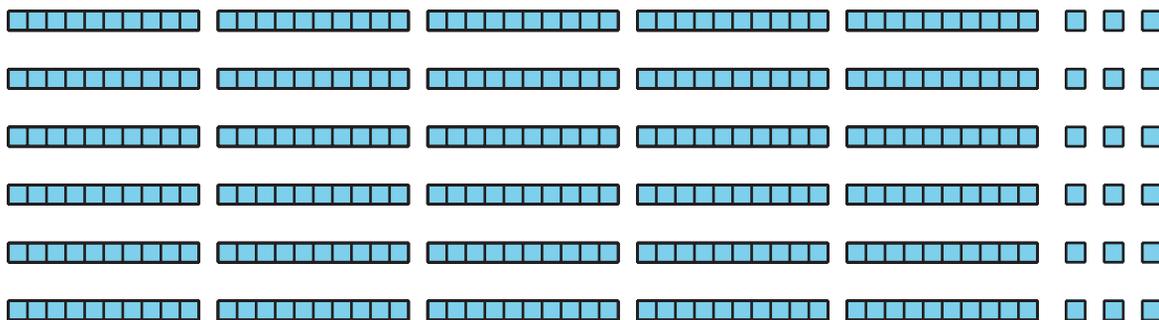
Explain or show how his diagram helps him find the value of 9×18 .



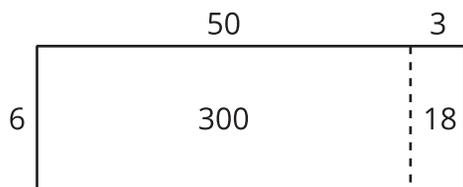
2 Two Kinds of Diagrams

Student Task Statement

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



- a. Where do you see 6 and 53 in her diagram?
 - b. Where do you see 300 and 18 in Priya's diagram? What do they represent?
2. Han drew 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

Images for Activity Synthesis

