

Section A: Practice Problems

1. Pre-unit

Han says that the value of the 7 in 735,208 is 10 times the value of the 7 in 137,342. Do you agree with Han? Explain or show your reasoning.

2. Pre-unit

Find the value of each product. Explain or show your reasoning.

a. 27×53

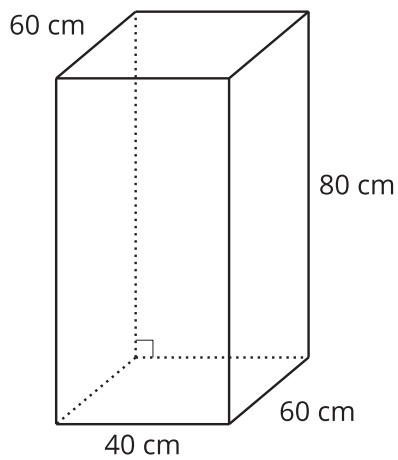
b. 518×6

3. Pre-unit

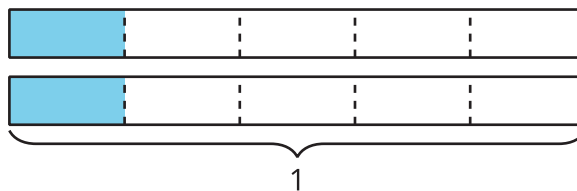
Find the value of $7,518 \div 6$. Explain or show your reasoning.

4. Pre-unit

What is the volume of this rectangular prism? Explain or show your reasoning.



5. Pre-unit



a. Explain or show how the drawing shows $2 \div 5$.

b. Explain or show how the drawing shows $\frac{2}{5}$.

6. Find the value of each product. Explain or show your reasoning.

a. 100×50

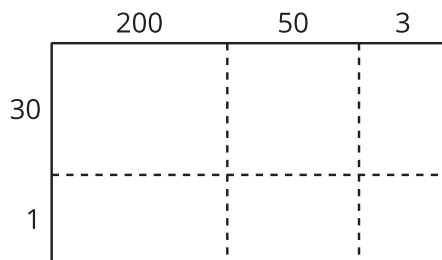
b. 120×50

c. 127×50

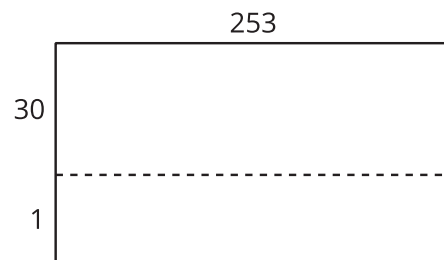
(From Unit 4, Lesson 1.)

7. Complete the diagrams and use each of them to find 253×31 .

A



B



How are the strategies the same? How are they different?

(From Unit 4, Lesson 2.)

8. Find 315×43 using partial products.

(From Unit 4, Lesson 3.)

9. Use the standard algorithm to find the value of $16,452 \times 6$.

(From Unit 4, Lesson 4.)

10. Find the value of 322×41 using the standard algorithm.

(From Unit 4, Lesson 5.)

11. Find the value of 562×34 using the standard algorithm.

(From Unit 4, Lesson 6.)

12. Andre is playing Greatest Product. He says the greatest product it's possible to make in the game is 987×65 . Do you agree with Andre? Explain or show your reasoning.

(From Unit 4, Lesson 7.)

13. Using the digits 1, 2, 3, 4, and 5 make a product that is close to 8,000.

$$\begin{array}{r} \square \square \square \\ \times \quad \square \square \\ \hline \end{array}$$

(From Unit 4, Lesson 8.)

14. The recommended side lengths for a birdhouse for a yellow-bellied sapsucker are 13 cm by 13 cm for the floor and a height of 31 to 38 cm. What are the smallest and largest volumes for these birdhouses? Explain or show your reasoning.

(From Unit 4, Lesson 9.)

16. Exploration

Clare has a strategy for multiplying a number by 99. To find 648×99 she calculates 648×100 and then subtracts 648.

a. Use Clare's strategy to calculate 648×99 .

b. Use the standard algorithm to calculate 648×99 .

c. Which strategy did you prefer? Why?