

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PERIOD \_\_\_\_\_

## Grade 4, Unit 6, Section B: Additional Practice Problems

1. Han lays out rows of his favorite buttons.

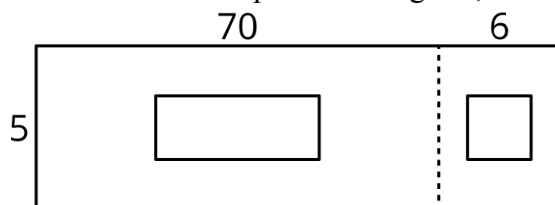


Circle **all** of the true statements about Han's buttons.

- A. Han could find the sum of 4 rows of 12 buttons to find the total.
- B. Han could find the sum of 12 columns of 4 buttons to find the total.
- C. Han could find the number of buttons in half the collection and double it to find the total.
- D. Han could find the difference in the number of rows and columns to find the total number of buttons.
- E. Han must count all of the buttons to find the total.

(From Unit 6, Lesson 5.)

2. a. Find  $5 \times 76$ . Complete the diagram, then solve.



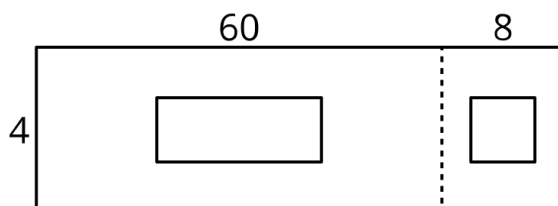
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NAME

DATE

PERIOD

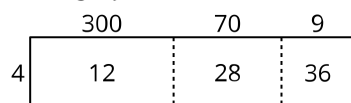
b. Find  $4 \times 68$ . Complete the diagram, then solve.



(From Unit 6, Lesson 6.)

3. Priya modeled several expressions. Decide whether each model is true or false for the given expression. Explain your reasoning.

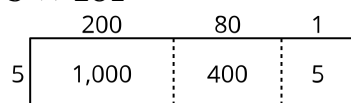
a.  $4 \times 379$



TRUE

FALSE

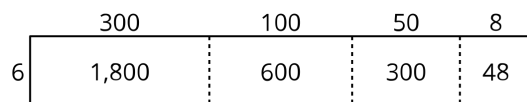
b.  $5 \times 281$



TRUE

FALSE

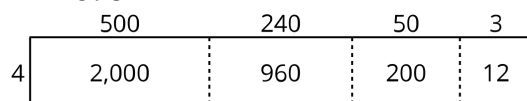
c.  $6 \times 458$



TRUE

FALSE

d.  $4 \times 693$



TRUE

FALSE

(From Unit 6, Lesson 7.)

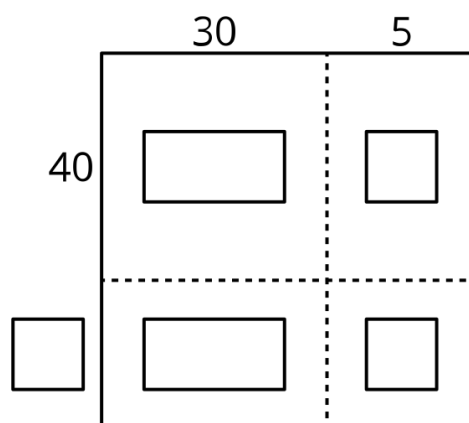
NAME \_\_\_\_\_

DATE \_\_\_\_\_

PERIOD \_\_\_\_\_

4. Find  $35 \times 47$ .

a. Complete the diagram.



b. Solve  $35 \times 47$ .

(From Unit 6, Lesson 7.)

---

NAME

DATE

PERIOD

5. Match the different representations of each product.  
Write the letter of each card into the correct box.

| $4,125 \times 5$ | $4,251 \times 5$ |
|------------------|------------------|
|                  |                  |

A.  $5 \begin{array}{|c|c|c|c|} \hline 4,000 & 100 & 20 & 5 \\ \hline 20,000 & 500 & 100 & 25 \\ \hline \end{array}$

B.  $5 \begin{array}{|c|c|c|c|} \hline 4,000 & 200 & 50 & 1 \\ \hline 20,000 & 1,000 & 250 & 5 \\ \hline \end{array}$

C.  $(4,000 \times 5) + (200 \times 5) + (50 \times 5) + (1 \times 5)$

D.  $(4,000 \times 5) + (100 \times 5) + (20 \times 5) + (5 \times 5)$

E. 20,625

F. 21,255

(From Unit 6, Lesson 9.)

---

NAME

DATE

PERIOD

6. Here is Elena's computation of  $26 \times 83$ .

$$\begin{array}{r}
 26 \\
 \times 83 \\
 \hline
 18 \quad 3 \times 6 \\
 60 \quad 3 \times 20 \\
 48 \quad 8 \times 6 \\
 + 160 \quad 8 \times 20 \\
 \hline
 286
 \end{array}$$

Do you agree or disagree with Elena's computation? Explain or show your reasoning.

(From Unit 6, Lesson 10.)

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

a.  $715 \times 8 =$  \_\_\_\_\_

---

NAME

DATE

PERIOD

b.  $2,361 \times 4 =$  \_\_\_\_\_

(From Unit 6, Lesson 11.)

8. There are 1,840 electric vehicle charging stations in City A. City B has 4 times as many charging stations as City A. How many charging stations are in City B? Explain or show your reasoning.

(Unit 6, Lesson 12.)

---

NAME

DATE

PERIOD

## 9. EXPLORATION

Complete the multiplication algorithm.

$$\begin{array}{r}
 1 \square 0 \\
 \times \quad 25 \\
 \hline
 3, \square \square 0
 \end{array}$$

Is it possible to create another solution? Explain or show your reasoning.