

# Exploring Square Numbers

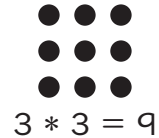
## Home Link 2-1

NAME \_\_\_\_\_

DATE \_\_\_\_\_

TIME \_\_\_\_\_

A **square number** is a number that can be written as the product of a number multiplied by itself. For example, the square number 9 can be written as  $3 * 3$ .



- ① Fill in the missing factors and square numbers.

| Factors | Square Number |
|---------|---------------|
|         | 4             |
| $3 * 3$ | 9             |
| $4 * 4$ |               |
|         | 25            |
|         | 36            |

- ② What pattern(s) do you see in the factors? In the products?

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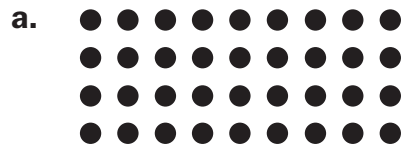
- ③ What other pattern(s) do you see in the table?

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- ④ Write an equation to describe each array.



Equation: \_\_\_\_\_



Equation: \_\_\_\_\_

- ⑤ a. Which of the arrays above shows a square number? \_\_\_\_\_  
 b. Explain. \_\_\_\_\_

## Practice

- ⑥ 32, 45, 58, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Rule: \_\_\_\_\_

- ⑦ \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 89, 115, 141

Rule: \_\_\_\_\_