



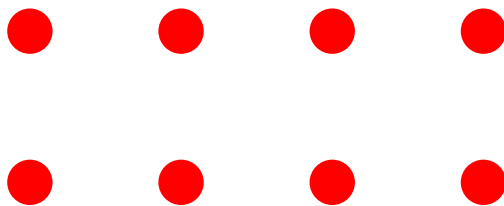
# Grade 3

## Chapter 02

### Multiplication Facts and Strategies

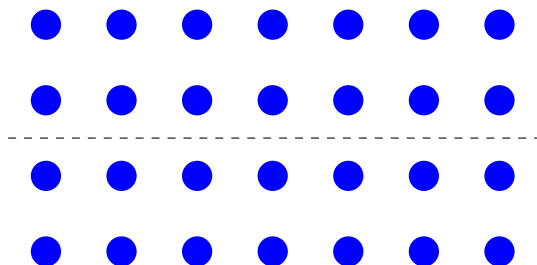
#### Use the Distributive Property

1. Use the distributive property to find the product.



$$\begin{aligned} 2 \times 4 &= 2 \times ( \text{-----} + \text{-----} ) \\ 2 \times 4 &= ( \text{-----} \times \text{-----} ) + ( \text{-----} \times \text{-----} ) \\ 2 \times 4 &= \text{-----} + \text{-----} \\ 2 \times 4 &= \text{-----} \end{aligned}$$

2.



$$4 \times 7 = ( \text{ } + \text{ } ) \times 7$$

$$4 \times 7 = ( \text{ } \times \text{ } ) + ( \text{ } \times \text{ } )$$

$$4 \times 7 = \text{ } + \text{ }$$

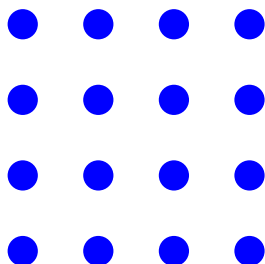
$$4 \times 7 = \text{ }$$

3. Explain how you can use the Distributive Property to find  $5 \times 12$ .

4. A roller-coaster train has 9 rows of seats. There are 4 seats of each row. Can a group of 38 students ride the roller coaster at the same time?

### Homework and Practice

2.



$$4 \times 4 = 2 \times ( \text{ } + \text{ } )$$

$$4 \times 4 = (\text{-----} \times \text{-----}) + (\text{-----} \times \text{-----})$$

$$4 \times 4 = \text{-----} + \text{-----}$$

$$4 \times 4 = \text{-----}$$

2. Your friend breaks apart an array into a  $4 \times 5$  array and a  $4 \times 2$  array. Draw a picture to show the original array.

3. Newton sleeps 9 hours each night. How many hours does he sleep in 1 week?

4. There are 3 lanes of cars sitting at a red light. Each lane has 6 cars in it. How many cars are sitting at the red light?

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