



# Interpret Representations of Multiplicative Comparison

Let's make sense of representations of problems with "times as many."

## Warm-up

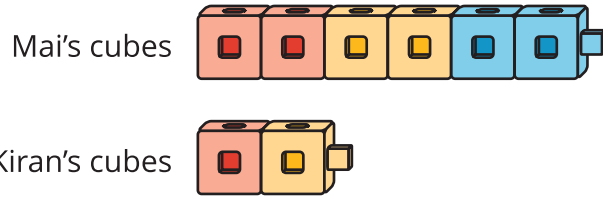
### How Many Do You See: Times as Many

How many do you see? How do you see them?



## Activity 1

### Represent “Times as Many”



1. Jada has 4 times as many cubes as Kiran. Draw a diagram to represent the situation.
2. Diego has 5 times as many cubes as Kiran. Draw a diagram to represent the situation.
3. Lin has 6 times as many cubes as Kiran. How many cubes does Lin have? Explain or show your reasoning.

Activity 2

# Diagrams to Solve Multiplicative Comparison Problems

Here are 4 sets of descriptions, diagrams, and equations that compare pairs of quantities.

Match each description to a diagram and an equation that represent the same situation.

|                                                                                                |                                                                                                 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| A                                                                                              | B                                                                                               |
| Lin has 3 cubes.<br>Jada has 2 times as many.                                                  | Han has 3 cubes.<br>Elena has 3 times as many.                                                  |
| C                                                                                              | D                                                                                               |
| $2 \times 3 = 6$                                                                               | Priya had 5 cubes.<br>Noah had 3 times as many.                                                 |
| E                                                                                              | F                                                                                               |
| $3 \times 5 = 15$                                                                              | $4 \times 4 = 16$                                                                               |
| G                                                                                              | H                                                                                               |
| quantity 1  | quantity 1  |
| quantity 2  | quantity 2  |
| I                                                                                              | J                                                                                               |
| $3 \times 3 = 9$                                                                               | Mai has 4 cubes.<br>Diego has 4 times as many.                                                  |
| K                                                                                              | L                                                                                               |
| quantity 1  | quantity 1  |
| quantity 2  | quantity 2  |

Record your matches here:

Set 1: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Set 2: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Set 3: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Set 4: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

