



# Solve Multiplicative Comparison Problems

Let's solve multiplicative comparison problems.

## Warm-up

### Number Talk: Find the Unknown Factor

Find the value of each unknown mentally.

- $8 \times ? = 16$

- $3 \times ? = 24$

- $? \times 8 = 32$

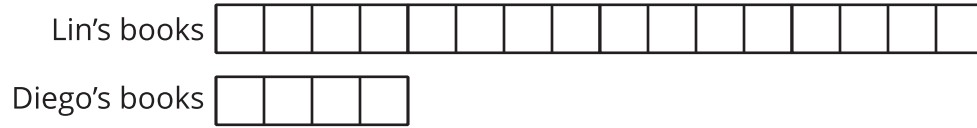
- $40 \div 8 = ?$



## Activity 1

### A Book Drive

This diagram shows the books Lin and Diego donated for the school book drive.



1. Lin donates 16 books. Diego donates 4 books. How many times the number of books as Diego does Lin donate? Explain or show your reasoning. Use the diagram if it is helpful.
2. Priya donates 3 books. Noah donates 21 books. How many times the number of books as Priya does Noah donate? Explain or show your reasoning. Draw a diagram if it is helpful.
3. Mai makes a pile of 27 donated books. Tyler makes his own pile of 3 books. How many times the number of books as Tyler does Mai stack? Explain or show your reasoning.



## Activity 2

### Represent an Unknown Amount

1. Clare donates 48 books. Clare donates 6 times as many books as Andre.
  - a. Draw a diagram to represent the situation.

- b. How many books does Andre donate? Explain your reasoning.

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2. Han says he can figure out the number of books Andre donates, using division.

Tyler says we have to use multiplication because it says “times as many.”

- a. Do you agree with Han or Tyler? Explain your reasoning.

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- b. Write an equation to represent Tyler’s thinking.

- c. Write an equation to represent Han’s thinking.

3. Elena donates 9 times as many books as Diego. Elena donates 81 books.

Use multiplication or division to find the number of books Diego donates.

