

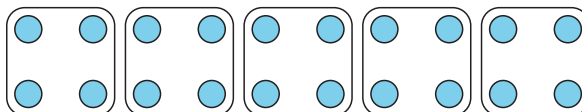
## Section A: Practice Problems

### 1. Pre-unit

Write a multiplication expression represented by each diagram.



a.



b.

### 2. Pre-unit

Each bottle contains 2 liters of water. How many liters of water are there in 6 bottles?

### 3. Pre-unit

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

a.  $5 \times \frac{1}{8}$

b.  $5 \times \frac{3}{8}$

c.  $4 \times \frac{7}{12}$

4. Pre-unit

Find the value of each expression.

a.  $\frac{2}{5} + \frac{4}{5}$

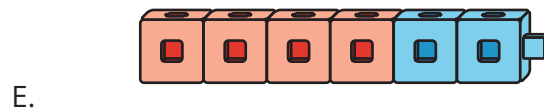
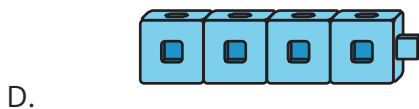
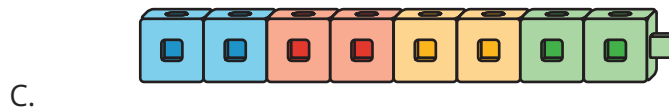
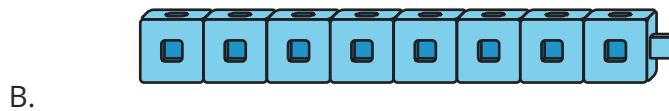
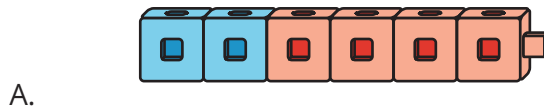
b.  $1\frac{5}{8} - \frac{4}{8}$

c.  $2\frac{1}{6} + 1\frac{5}{6}$

5. Here are some connecting cubes.



Select **all** pictures that show 4 times as many connecting cubes.



(From Unit 5, Lesson 1.)

6. Han read 4 books during the summer. Priya read 3 times as many books as Han.
- Draw a diagram that represents the situation.

- Write an equation that represents the situation.

(From Unit 5, Lesson 2.)

7. Mai exercised 3 times as many hours as Tyler last week. Mai exercised for 15 hours.
- Write an equation to represent the situation.
  - How many hours did Tyler exercise last week?

(From Unit 5, Lesson 3.)

8. Diego has 8 songs on his playlist. Mai has 3 times as many songs as Diego.

a. Write an equation that represents the situation.

b. Draw a diagram that represents the situation.

c. Explain how the diagram and equation are related.

---



---

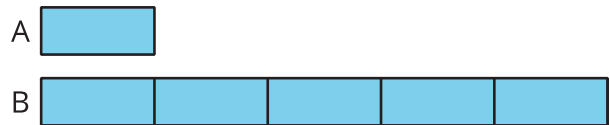
d. How many songs are on Mai's playlist?

(From Unit 5, Lesson 4.)

9. Lin scored 6 points in her basketball game on Saturday. She scored 3 times as many points in her basketball game on Sunday. How many points did Lin score altogether in the two games? Explain or show your reasoning.

(From Unit 5, Lesson 5.)

10. a. If diagram A represents 15, what does diagram B represent? Explain your reasoning.




---



---

- b. If diagram B represents 100, what does diagram A represent? Explain your reasoning.

---

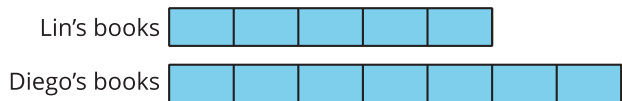


---

(From Unit 5, Lesson 6.)

**11. Exploration**

The diagram represents the books that Diego and Lin brought to the book fair.



For each question, explain or show your reasoning.

- a. If Lin brought 10 books, how many books did Diego bring?
- b. If Diego brought 21 books to the fair, how many books did Lin bring?
- c. If Lin and Diego brought 60 books altogether, how many did they each bring?

## 12. Exploration

Write a comparison story problem.

---

---

---

---

Trade problems with a partner.

a. Draw a diagram and write an equation to represent the situation.

b. Solve the story problem.