

# **Section A: Practice Problems**

### 1. Pre-unit

Which number could be labeled on the number line?



#### 2. Pre-unit

There are 85 students on the playground. There are 57 fewer students in the classroom than on the playground. How many students are in the classroom? Explain or show your reasoning.

### 3. Pre-unit

Jada says she can find 87-59 by taking away 60 from 87 and adding 1 so it is the same as 27+1 or 28. Explain or show why Jada's method to calculate 87-59 makes sense.

#### 4. Pre-unit

Find the value of 316 + 514. Explain or show your reasoning.

### 5. Pre-unit

Put a < or > in the blank to make each statement true.

### 6. Pre-unit

Find the value of each expression.

a. 
$$206 + 543$$

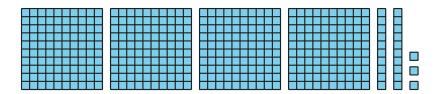
b. 
$$327 + 181$$

c. 
$$674 - 129$$

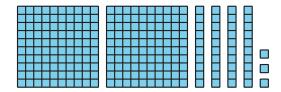


- 7. Select **all** representations of the number four hundred twenty-three.
  - A. 324
  - B. 423
  - C.400 + 30 + 2

D.



E.



(From Unit 3, Lesson 1.)

8. The height of the Empire State Building in New York City is 443 meters. The tallest building in the world is 830 meters. How many meters taller than the Empire State Building is the tallest building in the world?

(From Unit 3, Lesson 2.)

- 9. Find the value of each sum in any way that makes sense to you. Explain or show your reasoning.
  - a. 456 + 231

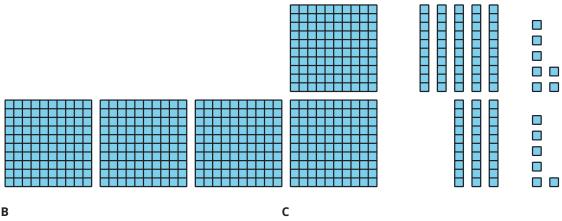


b. 372 + 165

(From Unit 3, Lesson 3.)

10. Here are three different ways to find the value of 157 + 436.

Α



В

1 5 7 8 0

How are the methods alike? How are they different? Explain your reasoning.

(From Unit 3, Lesson 4.)



11. Here is Elena's algorithm for finding 273 + 481.

- a. Where does the 100 that Elena wrote in step 2 come from?
- b. Use Elena's method to find 255 + 372.

(From Unit 3, Lesson 5.)

12. a. What do the 1s above the 2 and 5 in 253 mean in this calculation?



b. Use an algorithm or another strategy to find the value of each sum.

i. 
$$572 + 268$$

ii. 
$$726 + 199$$

(From Unit 3, Lesson 6.)

### 13. **Exploration**

Here is Lin's strategy to find the value of 596 + 385: "I added 600 and then took away 4."

a. Explain why Lin's strategy works. Then, use it to find the value of 596 + 385.



b. For which of these expressions would you use Lin's strategy? Explain or show your reasoning.

i. 
$$436 + 173$$

ii. 
$$517 + 255$$

iii. 
$$787 + 135$$

iv. 
$$247 + 395$$

## 14. Exploration

Write an addition problem with 3-digit numbers that you think is well suited for each of the following methods. Then, find the value of the sum using that method.

- a. mental strategies
- b. base-ten blocks

c. an algorithm