

# Preface



Welcome to **Mastery and Beyond!**

This book provides you with meaningful and interesting practices for further understanding and exploration of math. You can show how much you love math and how well you know your math. You can develop confidence in math and build your math power.

Let's master math and go beyond!

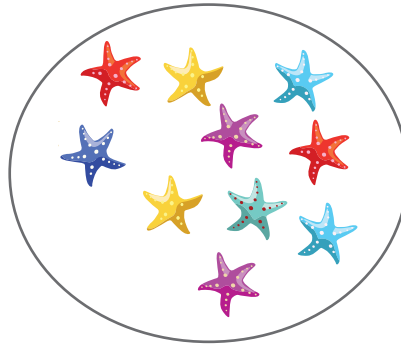


# MASTERY AND BEYOND NUMBERS TO 1,000

## Practice 1

I. How large is 100?

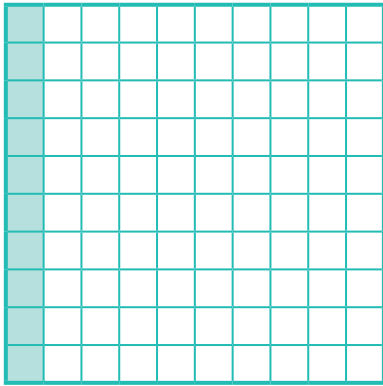
Make tens and count.  
10, 20, 30, ...



\_\_\_\_\_ tens make 100.

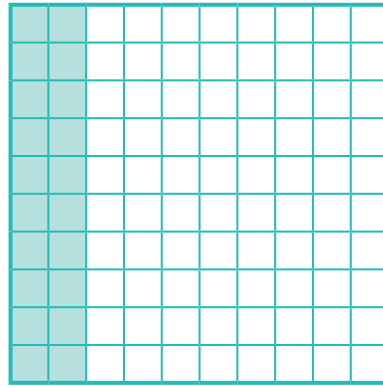
2. Count the tens.

(a)



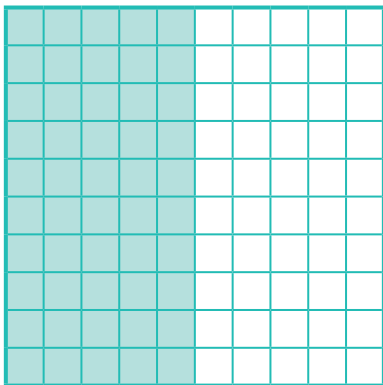
1 ten = 10

(b)



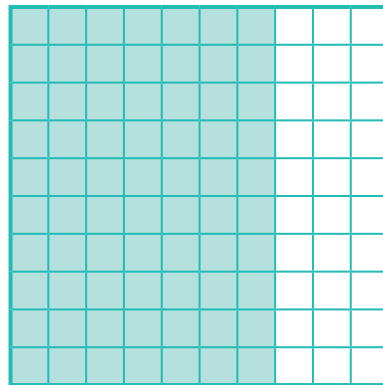
2 tens = \_\_\_\_\_

(c)



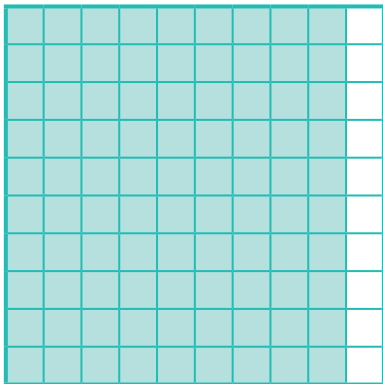
5 tens = \_\_\_\_\_

(d)



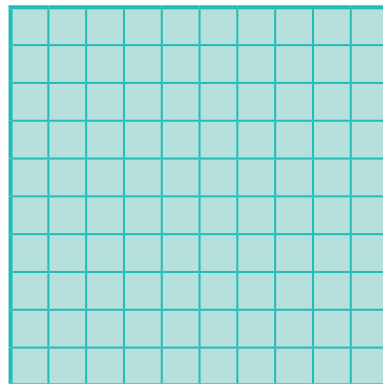
7 tens = \_\_\_\_\_

(e)



\_\_\_\_\_ tens = \_\_\_\_\_

(f)

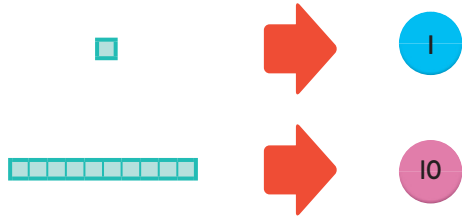


\_\_\_\_\_ tens = \_\_\_\_\_

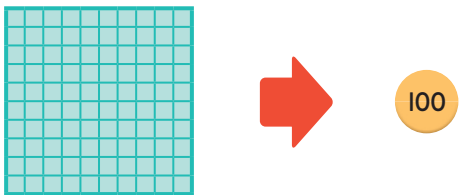
## Practice 2

I. Count the hundreds, tens and ones.

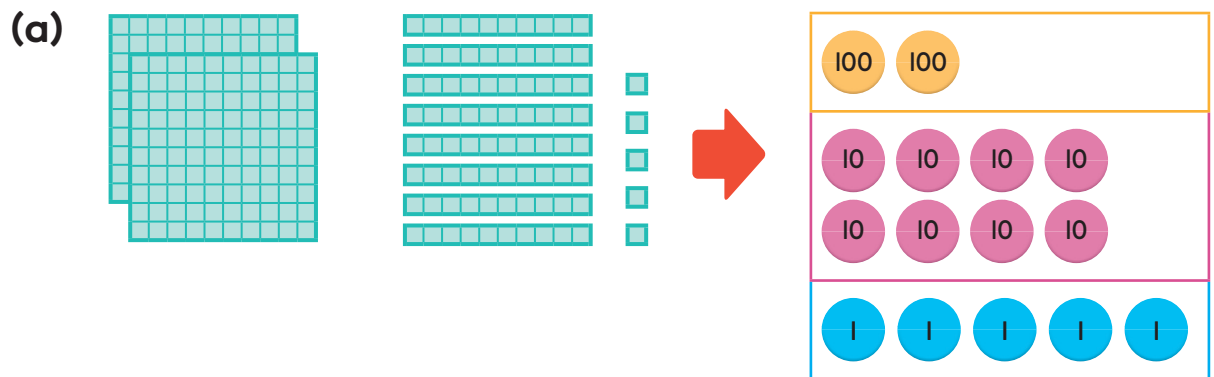
Write the numbers.



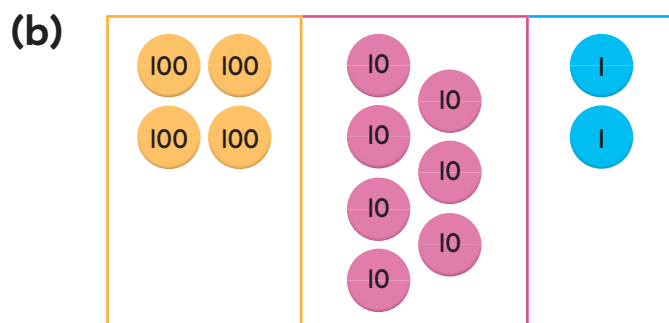
1 ten = 10 ones



1 hundred = 10 tens

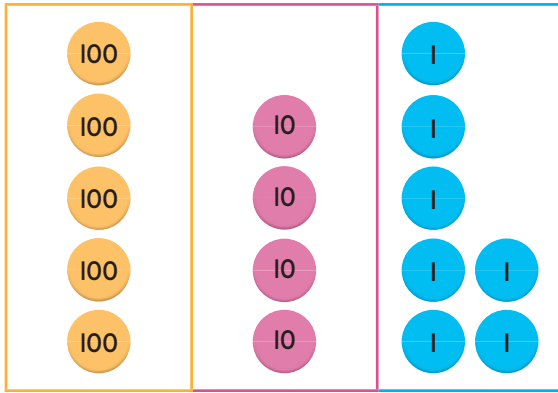


2 hundreds 8 tens 5 ones = \_\_\_\_\_



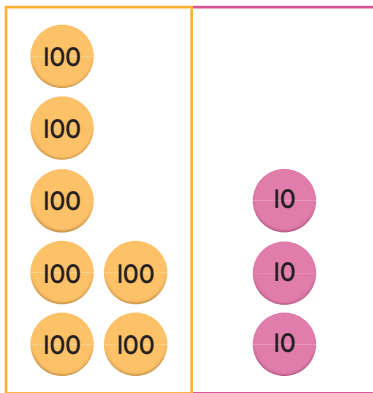
4 hundreds 7 tens 2 ones = \_\_\_\_\_

(c)



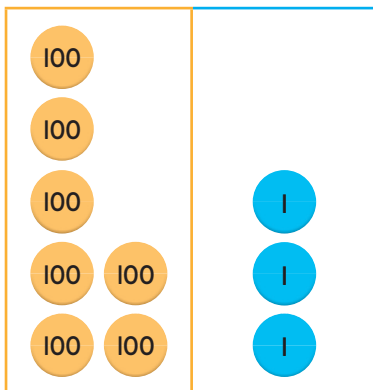
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
= \_\_\_\_\_

(d)



\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
= \_\_\_\_\_

(e)



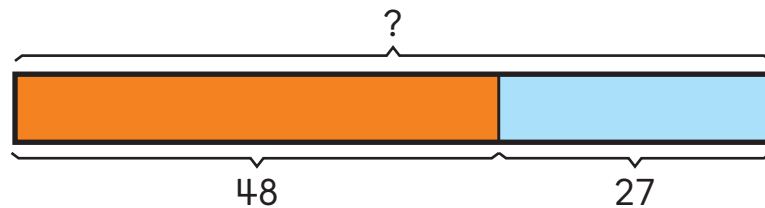
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
= \_\_\_\_\_

ADDITION AND SUBTRACTION USING  
BAR MODELS**Practice 1**

Add or subtract.

Draw bar models to help you.

1. Find the sum of 48 and 27.



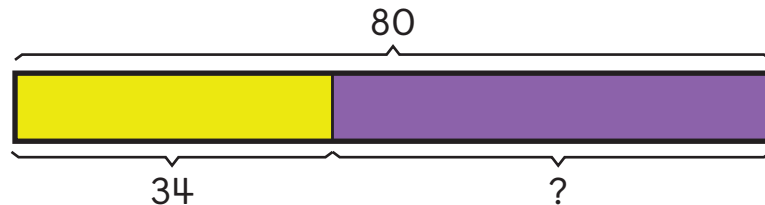
$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

The sum of 48 and 27 is \_\_\_\_\_.

2. The sum of two numbers is 80.

One number is 34.

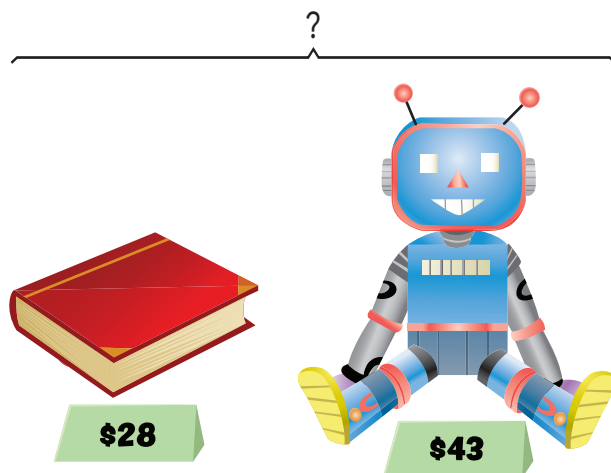
Find the other number.



$$\underline{\hspace{2cm}} \bigcirc \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

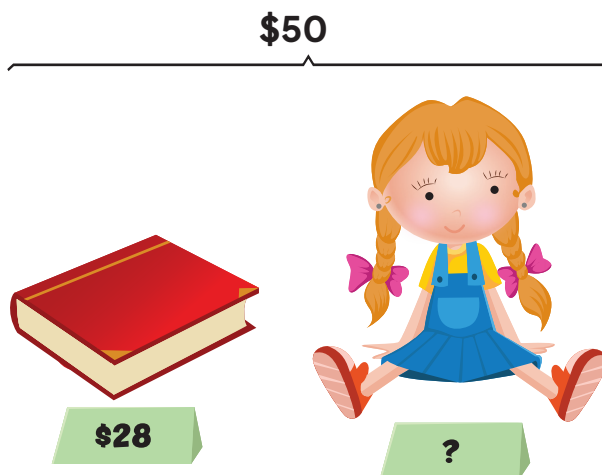
The other number is \_\_\_\_\_.

3. Find the total cost of the book and the toy robot.



The total cost is \$\_\_\_\_\_.

4. The book and the doll cost \$50 in all.  
Find the cost of the doll.



The cost of the doll is \$\_\_\_\_\_.

**Practice 3**

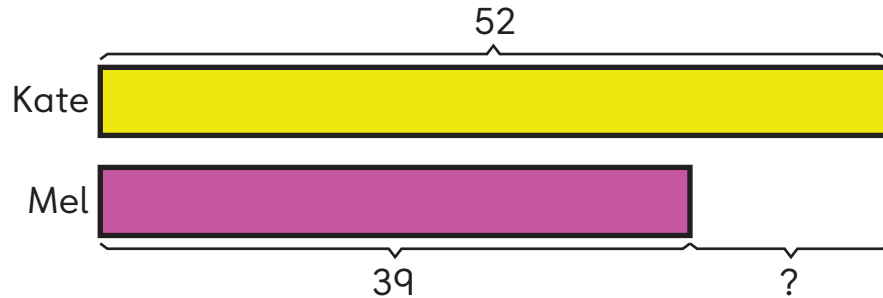
Solve the problems.

Draw bar models to help you.

1. Kate has 52 picture cards.

Mel has 39 picture cards.

How many more picture cards than Mel does Kate have?



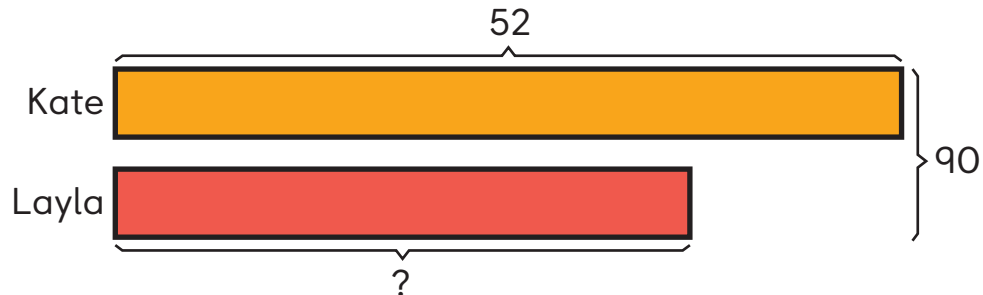
$$\underline{\hspace{2cm}} \bigcirc \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Kate has \_\_\_\_\_ more picture cards than Mel.

2. Kate and Layla have 90 picture cards in all.

Kate has 52 picture cards.

How many picture cards does Layla have?



$$\underline{\hspace{2cm}} \bigcirc \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Layla has \_\_\_\_\_ picture cards.



- 3.** Kate has 52 picture cards.  
She has 18 more picture cards than Joy.  
How many picture cards does Joy have?

Joy has \_\_\_\_\_ picture cards.

- 4.** Kate has 52 picture cards.  
She has 18 fewer picture cards than Cayden.  
How many picture cards does Cayden have?

Cayden has \_\_\_\_\_ picture cards.

# ANSWERS

## Chapter 1 NUMBERS TO 1,000

### Practice 1 Count to 1,000

1. 10

2. (b) 20 (c) 50 (d) 70  
(e) 9, 90 (f) 10, 100

3. (a) 3 (b) 5 (c) 6  
(d) 8 (e) 9 (f) 10

4. (b) 200 (c) 300 (d) 400  
(e) 700

5. (b) 276 (c) 3, 2, 8, 328

6. (a) 2, 5, 8 (b) 345, 3, 4, 5  
(c) (chart) 4, 0, 9; 409, 4, 0, 9

### Practice 2 Count to 1,000

1. (a) 285 (b) 472  
(c) 5, 4, 7, 547 (d) 7, 3, 0, 730  
(e) 7, 0, 3, 703

2. (a) 70, 6  
(b) (chart) 5, 8, 4; (strips) 500, 80, 4;  
500, 80, 4  
(c) 4, 400; 5, 50; 7, 7  
(d) 4, 90, 800  
(e) 2, 10, 500

3. (a) two hundred sixty-nine  
(b) 700, 30, 8; seven hundred, thirty, eight,  
seven hundred thirty-eight  
(c)  $600 + 20 + 1$ , six hundred twenty-one  
(d)  $900 + 40 + 2$ , nine hundred forty-two  
(e)  $800 + 9$ , eight hundred nine

### Practice 3 Number Patterns

1. (a) 464 (b) 473  
(c) 563 (d) 766, 775, 865  
(e) 649, 886, 384 (f) 510, 400, 1,000

2. (a) 462 (b) 453  
(c) 363 (d) 816, 807, 717  
(e) 380, 649, 376 (f) 739, 895, 438

3. (a) 49, 50, 51 (b) 100, 110, 120  
(c) 90, 89, 88 (d) 168, 169, 170  
(e) 403, 402; 400 (f) 510, 500, 490

4. (a) 690, 700; 740 (b) 790, 780; 750  
(c) 307; 607, 707 (d) 680, 580, 480  
(e) 710, 700, 690 (f) 330; 530; 830

### Practice 4 Compare and Order Numbers

1. (a) > (b) < (c) >  
(d) > (e) < (f) <

2. (a) 731, 469 (b) 652, 638  
(c) 483, 487 (d) 812  
(e) 459 (f) 921, 657, 348, 343

### Practice 5 Number Lines

1. (a) 8 (b) 4, 6, 9 (c) 9, 12, 15  
(d) 13, 17, 19

2. (a) 8, 11 (b) 10, 14, 18  
(c) 6, 13, 16, 18 (d) 6, 10, 12, 15  
(e) 0, 3, 7, 9

3. (a) 15, 25 (b) 14, 21, 28, 39  
(c) 35, 42, 48, 57 (d) 54, 59, 64, 76  
(e) 72, 85, 93, 98 (f) 55, 62, 67  
(g) 85, 91, 98, 105 (h) 161, 168, 175, 184  
(i) 482, 488, 494, 502 (j) 603, 609, 616, 628

4. (a) 150, 250  
(b) 140, 210, 280, 390  
(c) 250, 320, 380, 470  
(d) 540, 590, 640, 760  
(e) 620, 750, 830, 880  
(f) 180, 270, 350  
(g) 320, 390, 450, 550  
(h) 450, 520, 610, 660  
(i) 530, 640, 690, 770  
(j) 790, 850, 920, 990

### Practice 6 Number Lines

1. (a) > (b) <, >, < (c) <, >, >, <  
(d) >, <, <, >

2. (a) <, >, >, < (b) >, <, <, > (c) <, >, <, >  
(d) <, >, <, <

3. (a) (number line) 357; 354, 357  
(b) 505, 525; 505, 525  
(c) 470, 870; 470, 870  
(d) 464; 464, 461  
(e) 772, 792; 792, 772  
(f) 507, 807; 807, 507