

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!



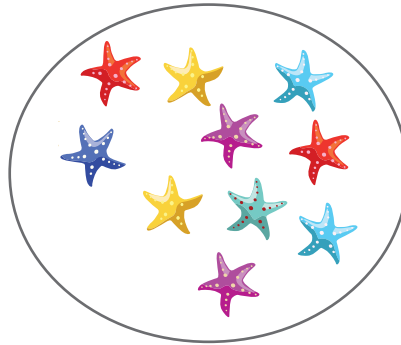
1

MASTERY AND BEYOND NUMBERS TO 1,000

Practice 1

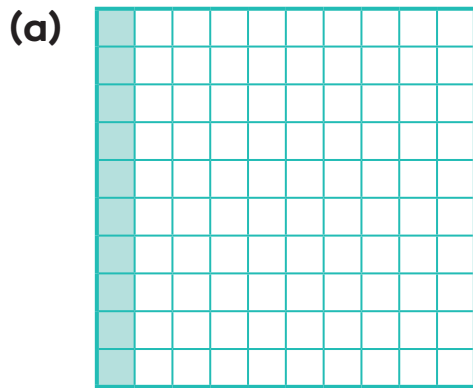
I. How large is 100?

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

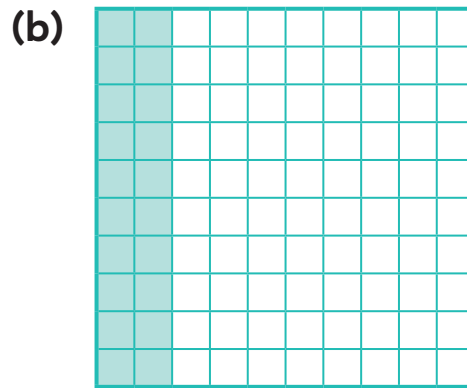


_____ tens make 100.

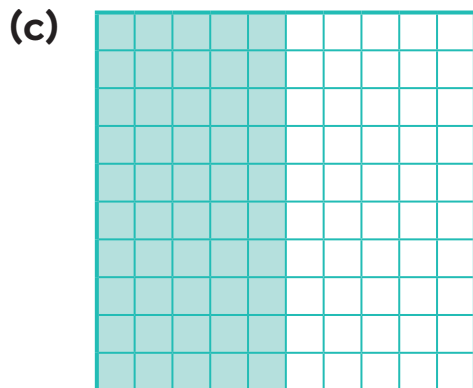
2. Count the tens.



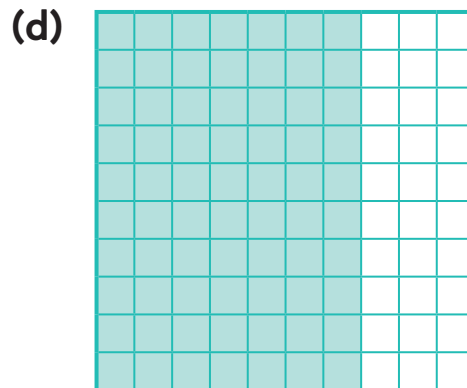
1 ten = 10



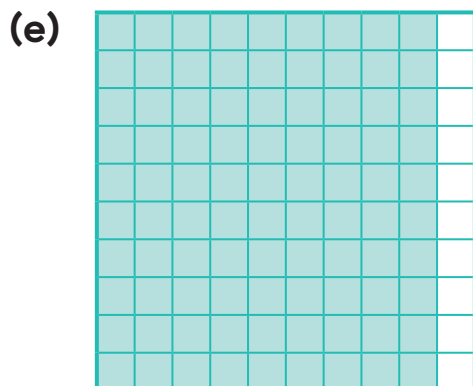
2 tens = _____



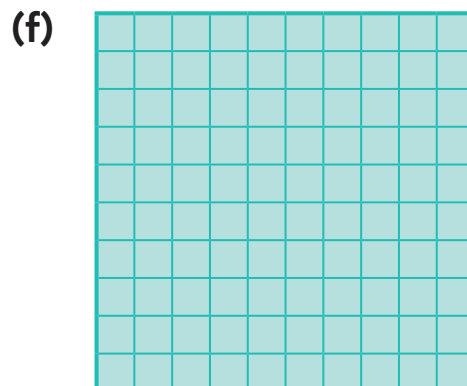
5 tens = _____



7 tens = _____



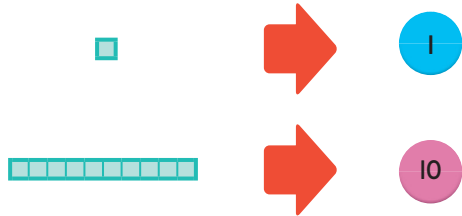
_____ tens = _____



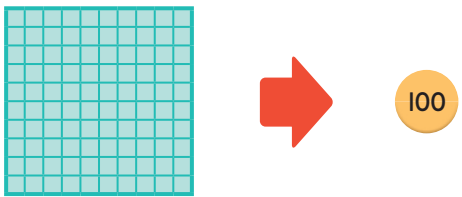
_____ tens = _____

Practice 2

- I. Count the hundreds, tens and ones.
Write the numbers.



1 ten = 10 ones



1 hundred = 10 tens

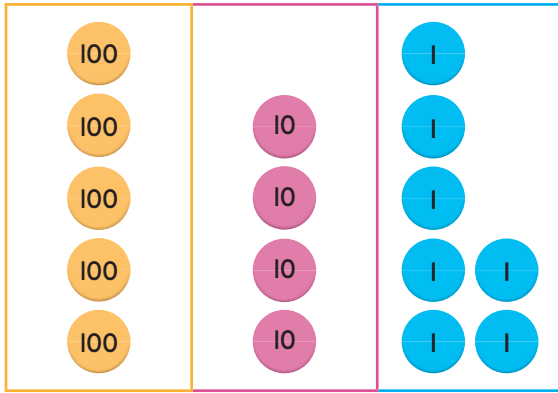
(a)

2 hundreds 8 tens 5 ones = _____

(b)

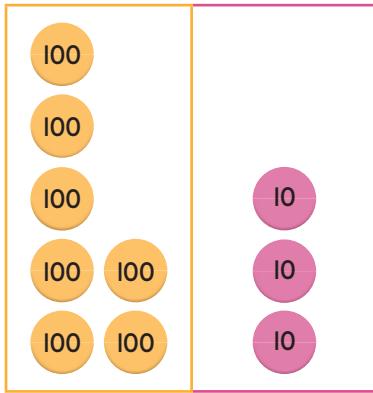
4 hundreds 7 tens 2 ones = _____

(c)



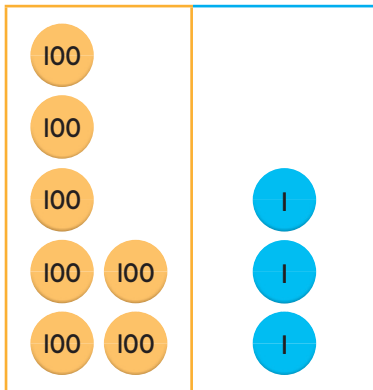
_____ hundreds _____ tens _____ ones
= _____

(d)



_____ hundreds _____ tens _____ ones
= _____

(e)



_____ hundreds _____ tens _____ ones
= _____

Chapter

4

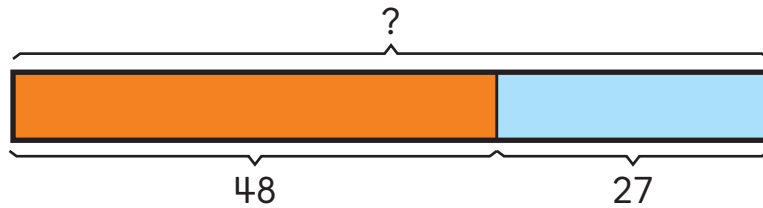
MASTERY AND BEYOND ADDITION AND SUBTRACTION USING BAR MODELS

Practice 1

Add or subtract.

Draw bar models to help you.

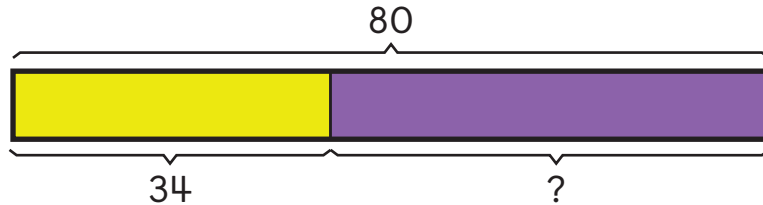
1. Find the sum of 48 and 27.



_____ + _____ = _____

The sum of 48 and 27 is _____.

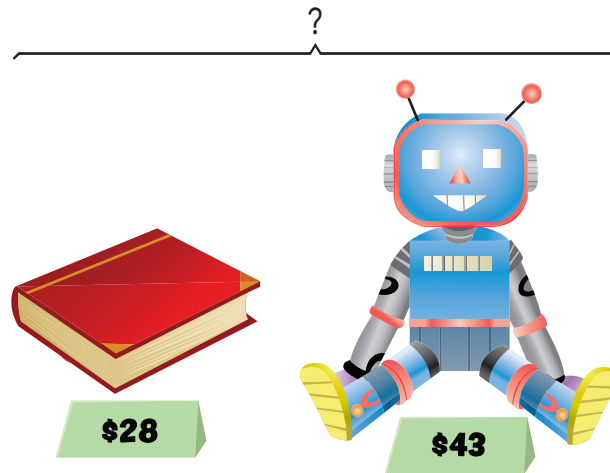
2. The sum of two numbers is 80.
One number is 34.
Find the other number.



_____ ○ _____ = _____

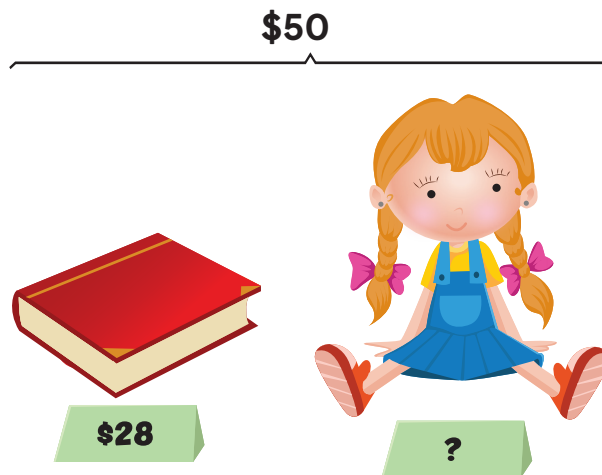
The other number is _____.

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

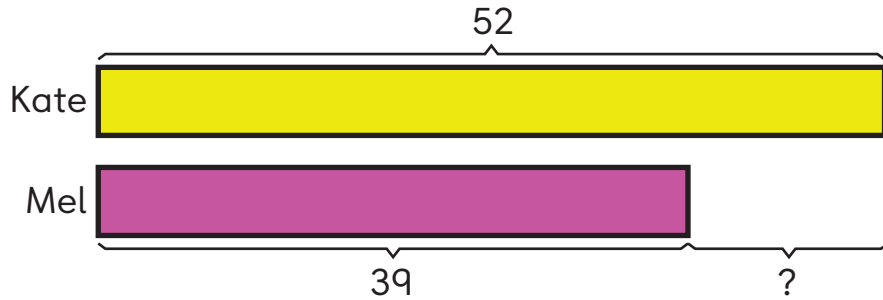
Solve the problems.

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?



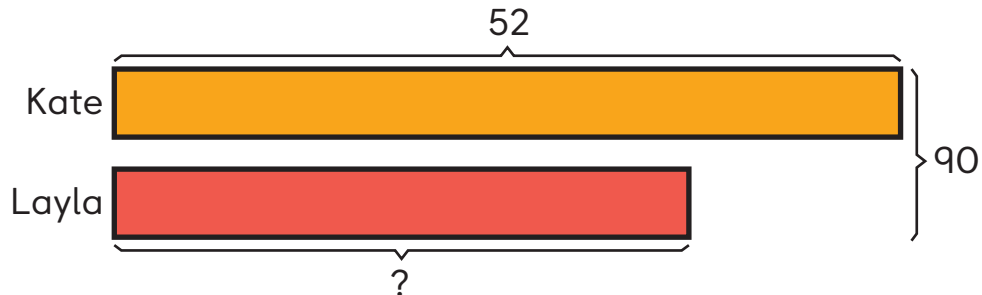
_____ ○ _____ = _____

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?



_____ ○ _____ = _____

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