

math

MAMMOTH

Grade 1-B Answer Key

Includes the
answers to:



Worktext Part B



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Chapter 4: Addition and Subtraction Facts

Addition and Subtraction Facts with 4 and 5, p. 10

Facts with 5		$5 + 0 = 5$	$5 - 5 = 0$
		$0 + 5 = 5$	$5 - 0 = 5$
	 	$4 + 1 = 5$	$5 - 4 = 1$
		$1 + 4 = 5$	$5 - 1 = 4$
	 	$3 + 2 = 5$	$5 - 3 = 2$
	 	$2 + 3 = 5$	$5 - 2 = 3$

1. a. 1, 3, 4, 2 b. 3, 4, 1, 2 c. 5, 1, 3, 3 d. 4, 1, 4, 2

2.

5 − 4	2 + 3	4 − 4	1 + 2	4 − 2	1 + 3
2 + 2	3 − 2	5 − 0	0 + 0	5 − 2	1 + 1
0 + 2	5 − 1	0 + 1	1 + 4	0 − 0	4 − 1

3.

17 − 0 = 17	10 + 0 = 10	5 − 2 = 3
17 − 1 = 16	10 + 1 = 11	6 − 2 = 4
17 − 2 = 15	10 + 2 = 12	7 − 2 = 5
17 − 3 = 14	10 + 3 = 13	8 − 2 = 6
17 − 4 = 13	10 + 4 = 14	9 − 2 = 7
17 − 5 = 12	10 + 5 = 15	10 − 2 = 8
17 − 6 = 11	10 + 6 = 16	11 − 2 = 9
17 − 7 = 10	10 + 7 = 17	12 − 2 = 10
17 − 8 = 9	10 + 8 = 18	13 − 2 = 11
17 − 9 = 8	10 + 9 = 19	14 − 2 = 12
17 − 10 = 7	10 + 10 = 20	15 − 2 = 13
17 − 11 = 6	10 + 11 = 21	16 − 2 = 14
17 − 12 = 5	10 + 12 = 22	17 − 2 = 15
etc.	etc.	etc.

Addition and Subtraction Facts with 6, p. 12

1.

6, 0, 6

$6 + 0 = 6$ $0 + 6 = 6$ $6 - 6 = 0$ $6 - 0 = 6$

5, 1, 6

$5 + 1 = 6$ $1 + 5 = 6$ $6 - 5 = 1$ $6 - 1 = 5$

4, 2, 6

$4 + 2 = 6$ $2 + 4 = 6$ $6 - 4 = 2$ $6 - 2 = 4$

3, 3, 6

$3 + 3 = 6$ $6 - 3 = 3$

2.

$0 + 6 = 6$ $1 + 5 = 6$ $2 + 4 = 6$ $3 + 3 = 6$	or	$6 + 0 = 6$ $5 + 1 = 6$ $4 + 2 = 6$
--	----	---

3. a.
$$\begin{array}{r} 6 \\ -5 \\ \hline 1 \end{array}$$
 b.
$$\begin{array}{r} 6 \\ -4 \\ \hline 2 \end{array}$$
 c.
$$\begin{array}{r} 6 \\ -6 \\ \hline 0 \end{array}$$
 d.
$$\begin{array}{r} 6 \\ -2 \\ \hline 4 \end{array}$$
 e.
$$\begin{array}{r} 6 \\ -1 \\ \hline 5 \end{array}$$
 f.
$$\begin{array}{r} 6 \\ -3 \\ \hline 3 \end{array}$$

5. a. 2, 3 b. 1, 6 c. 4, 5 d. 4, 1

6.

a. $2 + \triangle 3 = 5$ $\underline{5} - 2 = \triangle 3$	b. $1 + \triangle 5 = 6$ $6 - 1 = \triangle 5$	c. $4 + \triangle 1 = 5$ $5 - 4 = \triangle 1$
d. $3 + \triangle 5 = 8$ $\underline{8} - 3 = \triangle 5$	e. $5 + \triangle 5 = 10$ $10 - 5 = \triangle 5$	f. $2 + \triangle 5 = 7$ $7 - 2 = \triangle 5$

7.

a. $1 + \triangle 5 = 6$ $\triangle 5 + 1 = 6$ $6 - \triangle 5 = 1$ $6 - 1 = \triangle 5$	b. $2 + 7 = \triangle 9$ $7 + 2 = \triangle 9$ $\triangle 9 - 2 = 7$ $\triangle 9 - 7 = 2$
---	---

8. a. $4 + 3 = 7$. They have seven kittens altogether.

$4 - 3 = 1$ OR $3 + 1 = 4$. The black cat has one more than the white one.

b. $10 - 2 = 8$ OR $2 + 8 = 10$. He has lost eight crayons.

c. $10 + 2 = 12$. Mother had 12 clothespins. $10 - 2 = 8$ OR $8 + 2 = 10$.
Mother had eight more in the first container.

d. $8 - 2 = 6$ OR $2 + 6 = 8$. She needs six more eggs.
 $2 + 3 = 5$. Jill and the neighbor have five eggs in total.
 $8 - 5 = 3$ OR $5 + 3 = 8$. So, she will need three more.

Addition and Subtraction Facts with 7, p. 15

1.

7, 0, 7	6, 1, 7	5, 2, 7
	 	 
$7 + 0 = 7$ $0 + 7 = 7$ $7 - 0 = 7$ $7 - 7 = 0$	$6 + 1 = 7$ $1 + 6 = 7$ $7 - 6 = 1$ $7 - 1 = 6$	$5 + 2 = 7$ $2 + 5 = 7$ $7 - 5 = 2$ $7 - 2 = 5$

4, 3, 7
 
$4 + 3 = 7$ $3 + 4 = 7$ $7 - 4 = 3$ $7 - 3 = 4$

2.

$0 + 7 = 7$	or	$7 + 0 = 7$
$1 + 6 = 7$	or	$6 + 1 = 7$
$2 + 5 = 7$	or	$5 + 2 = 7$
$3 + 4 = 7$	or	$4 + 3 = 7$

4. a. $\begin{array}{r} 7 \\ -5 \\ \hline 2 \end{array}$	b. $\begin{array}{r} 7 \\ -4 \\ \hline 3 \end{array}$	c. $\begin{array}{r} 7 \\ -6 \\ \hline 1 \end{array}$	d. $\begin{array}{r} 7 \\ -2 \\ \hline 5 \end{array}$	e. $\begin{array}{r} 7 \\ -1 \\ \hline 6 \end{array}$	f. $\begin{array}{r} 7 \\ -3 \\ \hline 4 \end{array}$
--	---	---	---	---	---

5.

$5 + \underline{\quad} = 7$ $7 - 0 = \underline{\quad}$ $7 - 3 = \underline{\quad}$ $7 - \underline{\quad} = 1$	$7 - \underline{\quad} = 4$ $6 + \underline{\quad} = 7$ $7 - 2 = \underline{\quad}$ $0 + \underline{\quad} = 7$	$7 - \underline{\quad} = 6$ $\underline{\quad} + 4 = 7$ $7 - \underline{\quad} = 7$ $7 - \underline{\quad} = 2$
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6. a. Jeremy has two more pencils than Luis. $6 - 4 = 2$ or $4 + \underline{\quad} = 6$.

Altogether they have 10 pencils. $6 + 4 = 10$.

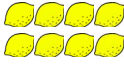
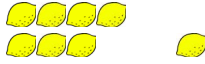
b. She found eight socks. $2 + 5 + 1 = 8$.

Puzzle corner:

–	12	11	10	9	8	7	6	5	4	3
1	11	10	9	8	7	6	5	4	3	2
2	10	9	8	7	6	5	4	3	2	1

Addition and Subtraction Facts with 8, p. 17

1.

8, <u>0</u> , 8	<u>7</u> , 1, 8	6, 2, 8
		
$8 + 0 = 8$ $0 + 8 = 8$ $8 - 0 = 8$ $8 - 8 = 0$	$7 + 1 = 8$ $1 + 7 = 8$ $8 - 1 = 7$ $8 - 7 = 1$	$6 + 2 = 8$ $2 + 6 = 8$ $8 - 2 = 6$ $8 - 6 = 2$

5, 3, 8	4, 4, 8
	
$5 + 3 = 8$ $3 + 5 = 8$ $8 - 5 = 3$ $8 - 3 = 5$	$4 + 4 = 8$ $8 - 4 = 4$

3.

$0 + \underline{8} = 8$	or	$\underline{8} + 0 = 8$	
$1 + \underline{7} = 8$	or	$\underline{7} + 1 = 8$	
$2 + \underline{6} = 8$	or	$\underline{6} + 2 = 8$	
$3 + \underline{5} = 8$	or	$\underline{5} + 3 = 8$	$4 + \underline{4} = 8$

4. a. 5, 7, 6 b. 3, 7, 6 c. 4, 2, 1 d. 1, 8, 4

5.

a. $5 - 2$ 4	b. $7 - 4$ 5	c. $8 - 1$ 7	d. $6 - 3$ 2
↓ ↓	↓ ↓	↓ ↓	↓ ↓
$3 < 4$	$3 < 5$	$7 = 7$	$3 > 2$

Addition and Subtraction Facts with 8, cont.

6.

a. $5 - 2$ ↓ 3	$4 - 2$ ↓ 2	b. $8 - 1$ ↓ 7	$7 - 1$ ↓ 6	c. $8 - 6$ ↓ 2	$8 - 5$ ↓ 3
d. $6 + 2$ ↓ 8	$7 + 2$ ↓ 9	e. $7 - 1$ ↓ 6	$7 - 2$ ↓ 5	f. $4 + 4$ ↓ 8	$7 - 5$ ↓ 2
g. $1 - 1$ ↓ 0	$3 - 2$ ↓ 1	h. $3 + 10$ ↓ 13	10	i. 7	$4 + 2$ ↓ 6
j. $8 - 1$ ↓ 7	$4 - 2$ ↓ 2	k. $7 - 2$ ↓ 5	$6 - 1$ ↓ 5	l. $9 - 0$ ↓ 9	$7 + 2$ ↓ 9

7.

$6 + 2 = 8$	$8 - 4 = 4$	$3 + 5 = 8$
$8 - 0 = 8$	$8 - 5 = 3$	$8 - 2 = 6$
$8 - 3 = 5$	$7 + 1 = 8$	$4 + 4 = 8$
$7 + 1 = 8$	$8 - 2 = 6$	$8 - 0 = 8$
$4 + 4 = 8$	$0 + 8 = 8$	$8 - 1 = 7$

8. a. $7 - 4 = 3$. Bill has three more cars than Ed.

$10 - 4 = 6$. Jack has six more cars than Ed.

$10 - 7 = 3$. Jack has three more cars than Bill.

b. $5 + 3 = 8$. Both things together cost \$8, so she cannot buy both. She has \$7.

$7 + 1 = 8$. She would need \$1 more.

Addition and Subtraction Facts with 9, p. 21

1.

9, 0, 9	8, 1, 9	7, 2, 9
		
$9 + 0 = 9$ $0 + 9 = 9$ $9 - 0 = 9$ $9 - 9 = 0$	$8 + 1 = 9$ $1 + 8 = 9$ $9 - 1 = 8$ $9 - 8 = 1$	$7 + 2 = 9$ $2 + 7 = 9$ $9 - 7 = 2$ $9 - 2 = 7$

6, 3, 9	5, 4, 9
	
$6 + 3 = 9$ $3 + 6 = 9$ $9 - 6 = 3$ $9 - 3 = 6$	$5 + 4 = 9$ $4 + 5 = 9$ $9 - 5 = 4$ $9 - 4 = 5$

3.

$0 + \underline{9} = 9$	or	$\underline{9} + 0 = 9$
$1 + \underline{8} = 9$	or	$\underline{8} + 1 = 9$
$2 + \underline{7} = 9$	or	$\underline{7} + 2 = 9$
$3 + \underline{6} = 9$	or	$\underline{6} + 3 = 9$
$4 + \underline{5} = 9$	or	$\underline{5} + 4 = 9$

4. a. 4, 6, 3, 1 b. 7, 8, 2, 1 c. 8, 6, 4, 2 d. 8, 9, 7, 5

5.

$7 + \underline{2} = 9$	$0 + \underline{9} = 9$	$\underline{1} + 8 = 9$
$9 - 3 = \underline{6}$	$9 - \underline{6} = 3$	$9 - \underline{3} = 6$
$9 - 1 = \underline{8}$	$5 + \underline{4} = 9$	$\underline{7} + 2 = 9$
$9 - \underline{0} = 9$	$9 - 2 = \underline{7}$	$9 - \underline{5} = 4$
$4 + \underline{5} = 9$	$9 - \underline{8} = 1$	$\underline{9} + 0 = 9$

6. a. $8 \boxed{>} 10 - 3$ b. $9 \boxed{<} 9 + 3$ c. $8 - 6 \boxed{<} 6 + 3$
d. $6 + 2 \boxed{<} 8 + 2$ e. $10 - 1 \boxed{<} 10$ f. $8 - 4 \boxed{>} 8 - 5$
g. $5 - 2 \boxed{>} 4 - 2$ h. $8 + 0 \boxed{=} 8 - 0$ i. $9 - 1 \boxed{<} 9 + 1$

7. a. $\begin{array}{r} 9 \\ -5 \\ \hline 4 \end{array}$ b. $\begin{array}{r} 9 \\ -4 \\ \hline 5 \end{array}$ c. $\begin{array}{r} 9 \\ -6 \\ \hline 3 \end{array}$ d. $\begin{array}{r} 8 \\ -2 \\ \hline 6 \end{array}$ e. $\begin{array}{r} 9 \\ -2 \\ \hline 7 \end{array}$ f. $\begin{array}{r} 8 \\ -3 \\ \hline 5 \end{array}$

Addition and Subtraction Facts with 9, cont.

8.

$9 - 3$	$4 + 6$	$9 - 0$	$4 + 1$	$8 - 1$
$2 + 5$	$9 - 5$	$4 + 4$	$4 - 2$	$5 + 1$
$9 - 2$	$3 + 7$	$10 - 2$	$10 + 0$	$7 - 1$
$4 + 2$	$7 - 3$	$6 + 3$	$3 - 1$	$3 + 3$
$6 - 0$	$1 + 1$	$8 - 0$	$3 + 2$	$10 - 4$
$3 + 4$	$8 - 3$	$2 + 7$	$7 - 6$	$7 + 0$
$1 + 6$	$2 + 8$	$10 - 1$	$2 + 2$	$7 - 0$

($9 - 3$, $2 + 5$, $9 - 2$, $4 + 2$, $6 - 0$, $3 + 4$, $1 + 6$, $8 - 1$, $5 + 1$, $7 - 1$, $3 + 3$, $10 - 4$, $7 + 0$, $7 - 0$ are colored blue, $9 - 0$, $4 + 4$, $10 - 2$, $6 + 3$, $8 - 0$, $2 + 7$, $10 - 1$ are colored red, and the rest are colored yellow.)

Addition and Subtraction Facts with 10, p. 24

1.

10, 0, 10



$10 + 0 = 10$
 $0 + 10 = 10$
 $10 - 10 = 0$
 $10 - 0 = 10$

9, 1, 10



$9 + 1 = 10$
 $1 + 9 = 10$
 $10 - 9 = 1$
 $10 - 1 = 9$

8, 2, 10



$8 + 2 = 10$
 $2 + 8 = 10$
 $10 - 2 = 8$
 $10 - 8 = 2$

7, 3, 10



$7 + 3 = 10$
 $3 + 7 = 10$
 $10 - 7 = 3$
 $10 - 3 = 7$

6, 4, 10



$6 + 4 = 10$
 $4 + 6 = 10$
 $10 - 6 = 4$
 $10 - 4 = 6$

5, 5, 10



$5 + 5 = 10$
 $10 - 5 = 5$

3.

$0 + \underline{10} = 10$	or	$\underline{10} + 0 = 10$
$1 + \underline{9} = 10$	or	$\underline{9} + 1 = 10$
$2 + \underline{8} = 10$	or	$\underline{8} + 2 = 10$
$3 + \underline{7} = 10$	or	$\underline{7} + 3 = 10$
$4 + \underline{6} = 10$	or	$\underline{6} + 4 = 10$
$5 + \underline{5} = 10$		

4. a. 7, 4, 8 b. 10, 3, 1 c. 3, 8, 6

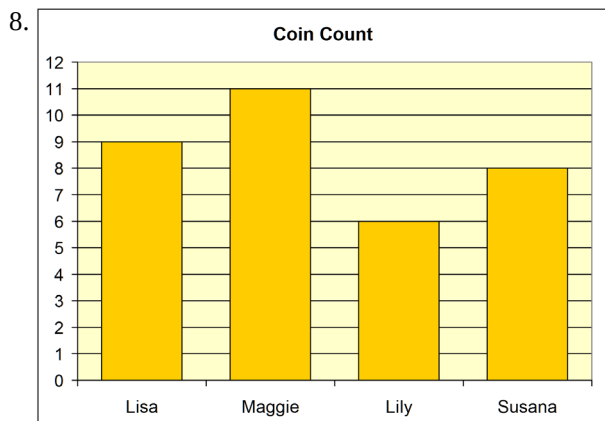
Addition and Subtraction Facts with 10, cont.

5.

$6 + 4 = 10$	$0 + 10 = 10$	$5 + 5 = 10$
$10 - 5 = 5$	$8 + 2 = 10$	$10 - 4 = 6$
$10 - 1 = 9$	$10 - 7 = 3$	$8 + 2 = 10$
$10 - 2 = 8$	$5 + 5 = 10$	$10 - 3 = 7$
$10 - 0 = 10$	$10 - 4 = 6$	$0 + 10 = 10$
$7 + 3 = 10$	$9 + 1 = 10$	$10 - 9 = 1$

6. a. $2 + 3 = 5$. Elisa has five coins. Sarah still has more coins. $6 - 5 = 1$. The difference is one coin.
 b. $6 + 1 = 7$. Dad got a total of seven boxes. Then he gave one away. $7 - 1 = 6$. So he ended up with six boxes.
 c. $6 + 3 = 9$. We have a total of nine dollars, so yes, we can buy the meal. $9 - 8 = 1$. We will have one dollar left over.

7. a. 5, 3, 8 b. 7, 6, 9 c. 4, 3, 1



9. Answers will vary; check the student's questions and answers. For example: How many more coins does Lisa have than Maggie?

Puzzle Corner.

Use "guess and check" to find the answers.

- a. The square is 6, the triangle is 4. $6 + 4 = 10$, $6 - 4 = 2$
 b. The square is 8, the triangle is 2. $8 + 2 = 10$, $8 - 2 = 6$
 c. The square is 5, and the triangle is 5. $5 + 5 = 10$, $5 - 5 = 0$

Subtracting More Than One Number, p. 28

1. a. 3, 1, 4 b. 5, 3, 2 c. 2, 2, 5

2. a. She has six cookies left. $10 - 2 - 2 = 6$ b. There are three birds left. $7 - 3 - 1 = 3$
 c. Now there are three cars. $8 - 3 - 2 = 3$ d. Jack now has \$8. $\$5 + \$2 + \$1 = \$8$

3. a. 2, 1 b. 1, 2 c. 1, 3

4. a. 5, 4 b. 1, 0 c. 2, 1

5.

	a. $8 - 2 - 2 - 2 - 2 = 0$	
	b. $8 - 4 - 4 = 0$	
	c. $6 - 2 - 2 - 2 = 0$	
	d. $6 - 3 - 3 = 0$	

Puzzle corner. $9 - 3 - 2 - 1 = 3$ $10 - 1 - 2 - 1 = 6$ $8 - 4 - 1 - 2 = 1$

Review - Facts with 6, 7 and 8, p. 30

1.

a. $0 + 8 = 8$ $3 + 5 = 8$ $2 + 6 = 8$ $6 + 2 = 8$ $5 + 3 = 8$	b. $3 + 4 = 7$ $5 + 2 = 7$ $1 + 6 = 7$ $6 + 1 = 7$ $2 + 5 = 7$	c. $6 - 4 = 2$ $6 - 1 = 5$ $6 - 3 = 3$ $6 - 2 = 4$ $6 - 5 = 1$	d. $7 - 5 = 2$ $8 - 5 = 3$ $6 - 5 = 1$ $8 - 4 = 4$ $7 - 3 = 4$
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2.

a. $8 - 2$ $7 - 3$ ↓ ↓ 6 > 4	b. $10 - 7$ $9 - 6$ ↓ ↓ 3 = 3	c. $7 - 6$ $4 - 2$ ↓ ↓ 1 < 2
d. $4 + 2 > 9 - 8$	e. $10 - 4 > 7 - 4$	f. $3 + 4 > 7 - 1$

3. a. Luisa had 5 more counters. $9 - 4 = 5$ or $4 + 5 = 9$.

b. Luisa had three more counters. $8 - 5 = 3$ or $5 + 3 = 8$.

4.

$6 - 5 = 1$	$7 - 5 = 2$	$8 - 3 = 5$
$2 + 5 = 7$	$4 + 2 = 6$	$5 + 2 = 7$
$8 - 5 = 3$	$6 - 1 = 5$	$1 + 5 = 6$
$6 + 2 = 8$	$5 + 3 = 8$	$8 - 6 = 2$
$6 - 4 = 2$	$8 - 2 = 6$	$2 + 4 = 6$

5.

$3 + 4 = 7$	$1 + 6 = 7$	$8 - 1 = 7$
$6 - 3 = 3$	$8 - 7 = 1$	$1 + 6 = 7$
$7 + 1 = 8$	$3 + 3 = 6$	$3 + 3 = 6$
$8 - 4 = 4$	$4 + 3 = 7$	$8 - 4 = 4$
$7 - 1 = 6$	$8 - 4 = 4$	$7 - 3 = 4$

Puzzle Corner.
Answers will vary.
Here is one
possibility.

2	+	6	=	8
-	-	-		
2	+	4	=	6
0		2		

3	+	4	=	7
+	-	-		
5	-	1	=	4
8		3		

Review - Facts with 9 and 10, p. 32

1.

a. $4 + \underline{5} = 9$ $1 + \underline{8} = 9$ $6 + \underline{3} = 9$ $2 + \underline{7} = 9$	b. $5 + \underline{5} = 10$ $2 + \underline{8} = 10$ $3 + \underline{7} = 10$ $4 + \underline{6} = 10$	c. $10 - \underline{9} = 1$ $10 - \underline{3} = 7$ $10 - \underline{5} = 5$ $10 - \underline{2} = 8$	d. $9 - \underline{7} = 2$ $9 - \underline{3} = 6$ $9 - \underline{1} = 8$ $9 - \underline{4} = 5$
--	--	--	--

2.

a. $2 + 3 + 3 = 8$

b. $3 + 2 + 2 = 7$

c. $1 + 2 + 2 = 5$

d. $3 + 4 + 2 = 9$

e. $3 + 3 + 3 = 9$

f. $2 + 2 + 2 = 6$

3. a. Correct b. Should be $10 - \underline{4} = 6$ c. Should be $9 - 4 = \underline{5}$ d. Correct e. Should be $7 - \underline{4} = 3$ f. Correct

4.

$9 - 2 = 7$	$7 + 2 = 9$	$9 - 4 = 5$
$9 - 3 = 6$	$8 + 1 = 9$	$9 - 6 = 3$
$9 - 1 = 8$	$4 + 5 = 9$	$9 - 7 = 2$
$9 - 5 = 4$	$3 + 6 = 9$	$1 + 8 = 9$

5. a. Answers may vary. Please check the student's work. In part (a) one number 9 will be left unpaired. In part (b) a number 6 will be left unpaired.

6.

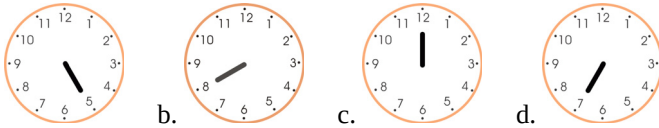
$10 - 2 = 8$	$1 + 9 = 10$	$9 + 1 = 10$
$10 - 5 = 5$	$4 + 6 = 10$	$10 - 5 = 5$
$10 - 9 = 1$	$5 + 5 = 10$	$10 - 4 = 6$
$10 - 3 = 7$	$2 + 8 = 10$	$7 + 3 = 10$
$10 - 6 = 4$	$3 + 7 = 10$	$10 - 2 = 8$

7. a. $7 - 2 = 5$. Ken has five more than Millie.
 b. $3 + 4 + 3 = 10$. Mike has ten cars.
 c. $4 + 4 = 8$. There were eight birds. $8 - 5 = 3$. Later, there were three birds.
 d. $4 + 6 = 10$ or $10 - 4 = 6$. Six crayons are missing.
 e. $10 - 2 = 8$. There are eight pieces left.

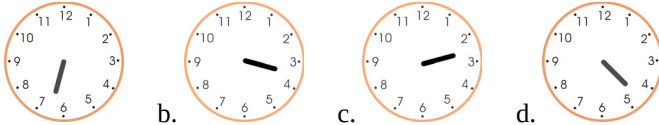
Chapter 5: Time

Whole and Half Hours, p. 38

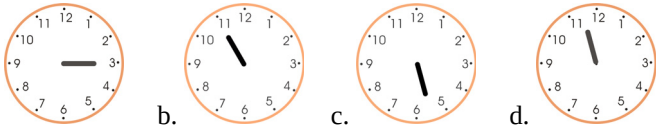
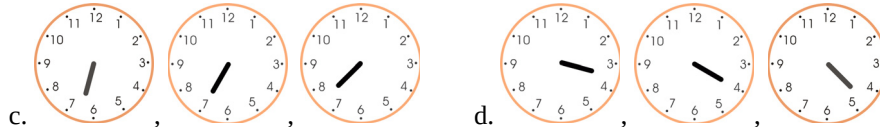
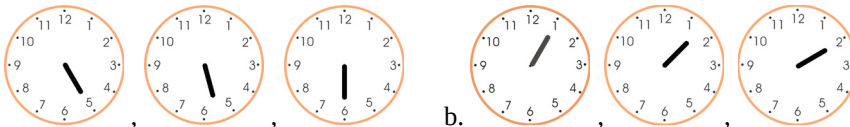
1. a. 2 o'clock b. 11 o'clock c. 6 o'clock d. 9 o'clock



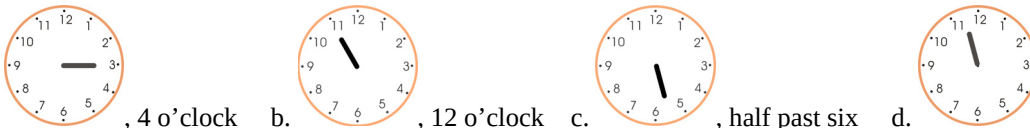
3. a. half past 1 b. half past 8 c. half past 12 d. half past 5.



5. a. 5 o'clock b. half past 12 c. half past 7 d. half past 2
e. 4 o'clock f. 7 o'clock g. 12 o'clock h. half past 1



7. a. half past 3 b. half past 11 c. 6 o'clock d. 12 o'clock
8. a. 5 o'clock, 6 o'clock b. 12 o'clock, 1 o'clock c. half past 3, half past 4 d. half past 9, half past 10



Minutes and Half Hours, p. 42

1. a. Half past 6 b. 5 o'clock c. Half past 2 d. Half past 10
2. a. 6 o'clock, 6:00 b. Half past 6, 6:30 c. 2 o'clock, 2:00 d. Half past 9, 9:30
e. Half past 4, 4:30 f. Half past 12, 12:30 g. 11 o'clock, 11:00 h. 5 o'clock, 5:00
3. a. 3:30, 4:00 b. 7:00, 7:30 c. 9:30, 10:00 d. 3:00, 3:30 e. 12:00, 12:30
4. a. 3:00 b. 6:30 c. 12:30 d. 1:00 e. 9:30
5. a. 3 hours b. 1 hour c. 1/2 an hour d. 2 hours e. 5 hours f. 1/2 an hour
6. a. 9:35 b. 6:10 c. 3:25 d. 11:35 e. 1:15 f. 11:50 g. 7:05 h. 12:45
7. a. 9:10 b. 12:10 c. 7:05 d. 5:20 e. 7:55 f. 1:50 g. 8:45 h. 7:40

Time Order, p. 46

1. The answers will vary.

2. a. Yesterday Paul studied for the test.
Tomorrow Paul will know the results.
Today Paul has a math test.

b. Today Mom makes a birthday cake!
Tomorrow we eat the leftovers.
Yesterday Mom bought eggs, flour, sugar, and fruit.

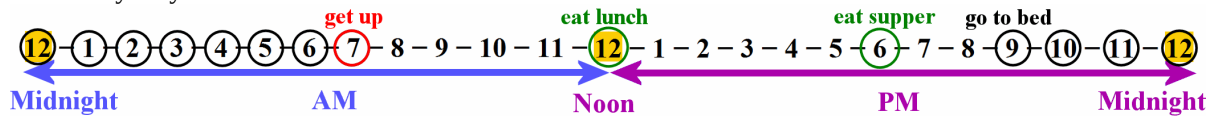
3.

3. Jane's ankle is hurt. 	2. Colored pencils! 	1. John goes to school. 
1. Jane rides her bike. 	1. Rick gets a gift. 	3. In the afternoon, John plays soccer. 
2. Jane crashes into a tree. 	3. Rick draws an airplane. 	2. John likes math class. 

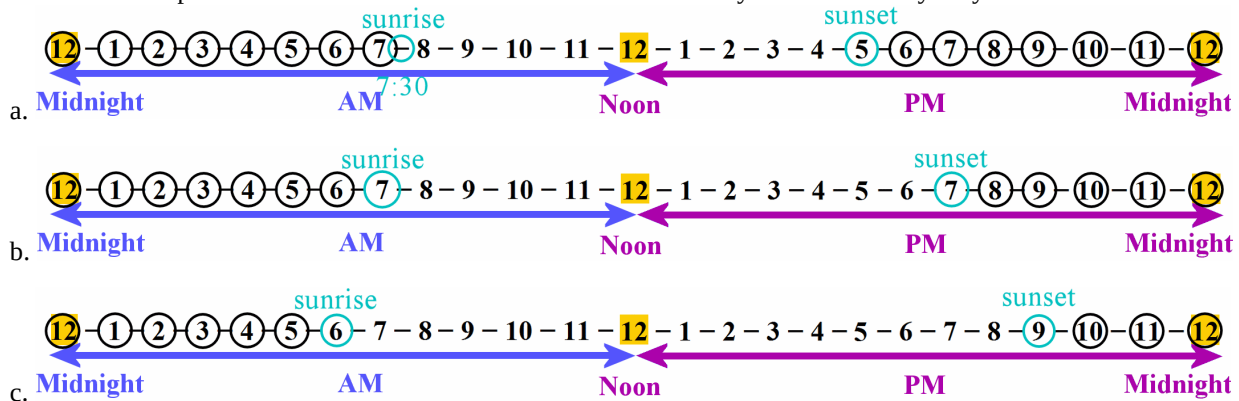
4. a. Prepare a meal. b. Read a book. c. Clean the house.
d. A soccer game. e. Go shopping for food. f. A game of cards.

AM and PM, p. 48

1. Answers may vary.



2. These are example solutions. The actual sunrise and sunset times in your location may vary.



3. Here are some example answers:

a. sleeping b. schoolwork c. eating lunch d. playing e. eating supper f. going to bed g. sleeping

4. a. It is before noon, 5:00 AM b. No, 8:00 PM c. Yes, 8:00 AM d. Yes, 11:00 AM
e. Yes, 2:30 AM f. Yes, 12:30 AM g. No, 12:30 PM h. No, 10:30 PM



5. a. , 7:00 AM b. , 12:00 PM c. , 6:00 PM

Answers will vary according to the student's schedule.

The Calendar, p. 51

1. a.- f. g., h, and i. answers will vary.

January Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	March Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
April Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	May Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	June Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
July Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	August Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	September Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
October Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	November Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	December Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

2. Su = Sunday, Mo = Monday, Tu = Tuesday, We = Wednesday, Th = Thursday, Fr = Friday, Sa = Saturday

3. a. August September October
b. March April May
c. June July August
d. January February March
e. October November December

4. a. January 4 is Sunday. b. May 14 is Thursday
c. July 23 is Thursday. d. March 10 is Tuesday.
e. Today (answers will vary) f. Your birthday (answers will vary)

5. June 1, June 8, June 15, June 22, June 29

6. April 2, April 9, April 16, April 23, April 30

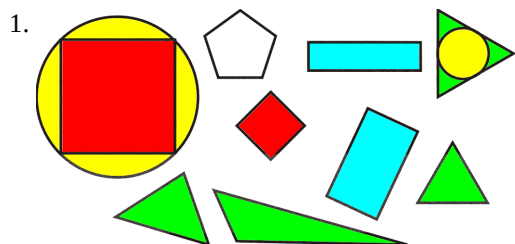
7. January, February, March, April;
May, June, July, August;
September, October, November, December.

Review—Half Hours, p. 53

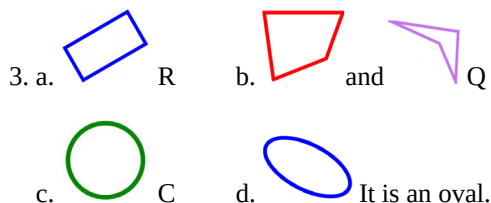
1. a. half past 7 b. 2 o'clock c. half past 12 d. half past 3
2. a. 9:00 b. 9:30 c. 4:30 d. 12:00
3. a. 5:30, 6:00 b. 11:00, 11:30 c. 12:30, 1:00 d. 2:00, 2:30 e. 6:00, 6:30
4. a. AM b. PM c. AM d. PM

Chapter 6: Shapes and Measuring

Basic Shapes, p. 57



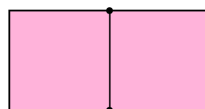
2. a. 3 b. 5 c. 5 d. 0 e. 6
f. 4 g. 4 h. 0 i. 4 j. 7



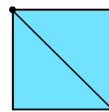
4. a. You get a triangle.
b. You get a triangle again, unless you draw the three dots so that they are "perfectly aligned," so that joining them you just get a line.

5.

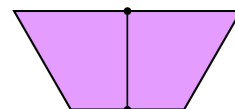
- a. The new shapes have 4 sides,
and 4 corners.
They are squares.



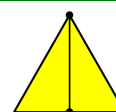
- b. The new shapes have 3 sides,
and 3 corners.
They are triangles.



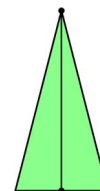
- c. The new shapes have 4 sides,
and 4 corners.
They are quadrilaterals.



- d. The new shapes have 3 sides,
and 3 corners.
They are triangles.



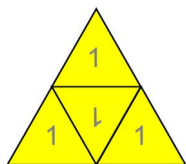
- e. The new shapes have 3 sides,
and 3 corners.
They are triangles.



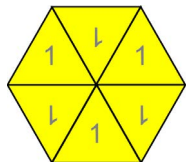
Puzzle corner:



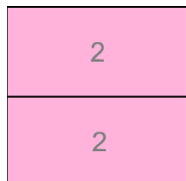
1.



2.

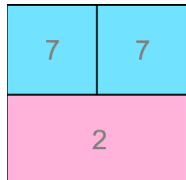


3.



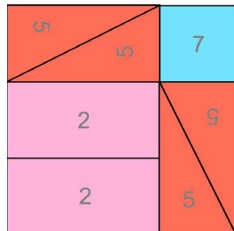
or the two rectangles side-by-side

4.

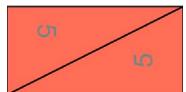


or this combination in other positions

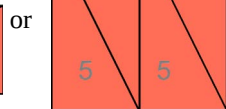
5.



6.

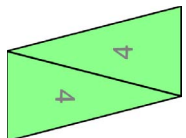


7.

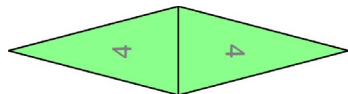


or

8.



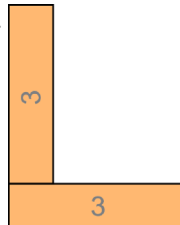
or



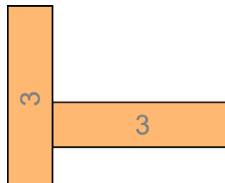
9. a.



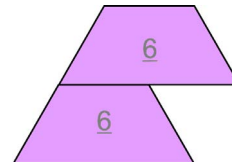
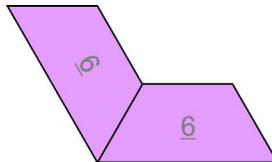
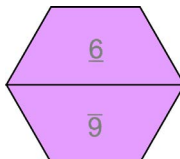
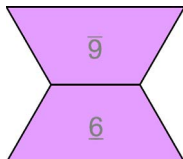
b.



c. One possibility:



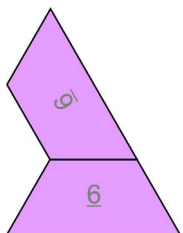
10.



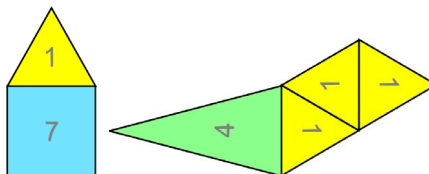
11.



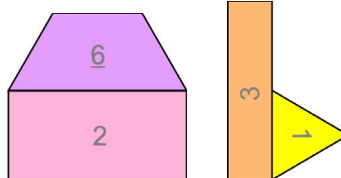
12.

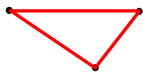


13. Answers will vary. For example:



14. Answers will vary. For example:



- 1.
- 

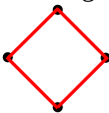
a. triangle



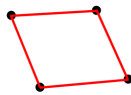
b. square
- 

c. rectangle



d. other four-sided shape
- 

e. square



f. other four-sided shape

2. Answers will vary.

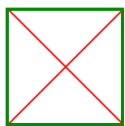
3. What kind of shapes do you get now?

triangles

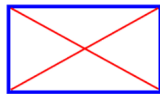
How many parts does each four-sided shape have now? 4

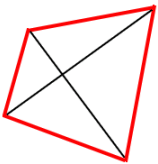
What kind of shapes are these parts?

triangles

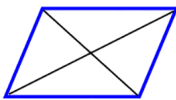
- 

a.



b.
- 

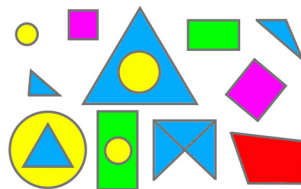
c.



d.

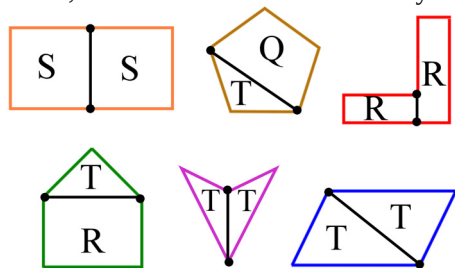
4. Answers will vary since the student can choose the colors.
For example:

Triangles are blue. Circles are yellow.
Squares are purple. Rectangles are green.
Other four-sided shapes are red.



Practicing Basic Shapes and Patterns, p. 66

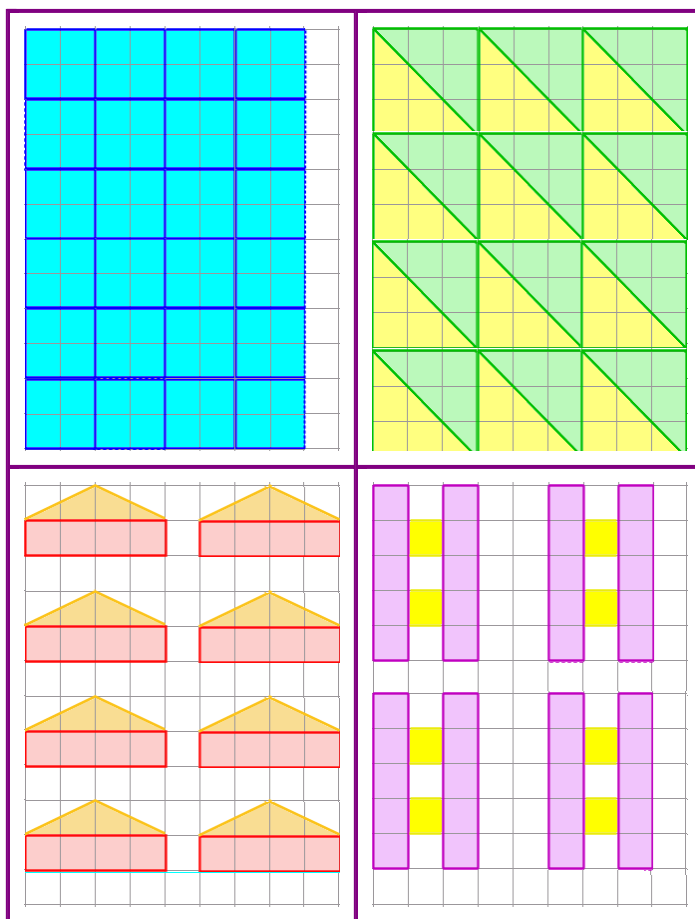
1. The colors that the student uses will vary.
As long as the new shapes aren't the same color, it doesn't matter what color they are.



2.



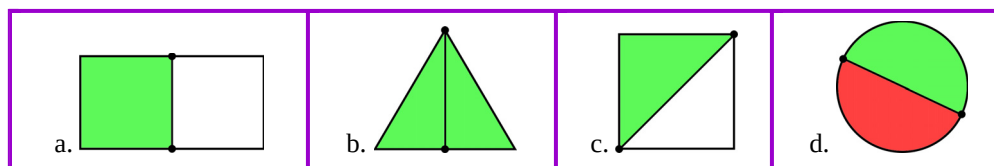
3.



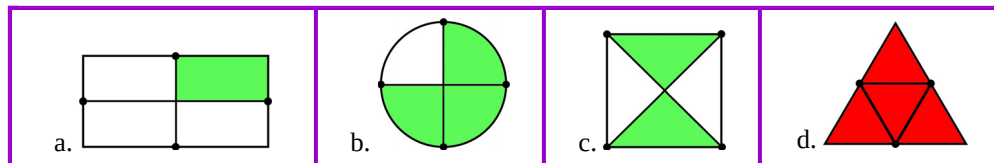
4. Answers will vary.

Halves and Quarters, p. 69

1.

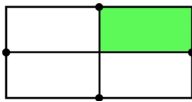
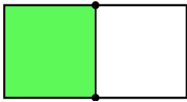
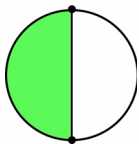
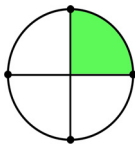


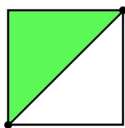
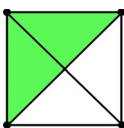
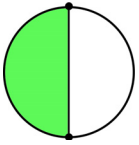
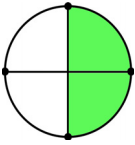
2.

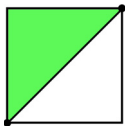
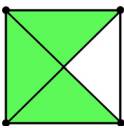
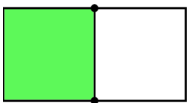
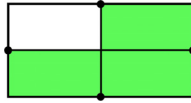


Halves and Quarters, cont.

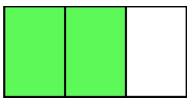
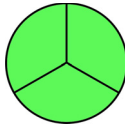
3.

 a. Color one-fourth of the rectangle.	 Color one-half of the rectangle.	 b. Color one-half of the circle.	 Color one-quarter of the circle.
Which one is a bigger piece, one-half or one-fourth? <u>One-half</u>			

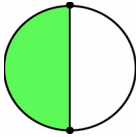
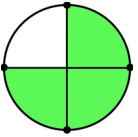
 c. Color one-half of the square.	 Color two quarters of the square.	 d. Color one-half of the circle.	 Color two quarters of the circle.
Which one is more, one half or two quarters? <u>Neither. They are equal, or the same amount.</u>			

 e. Color one-half of the square.	 Color three-fourths of the square.	 f. Color one-half of the rectangle.	 Color three-fourths of the rectangle.
Which one is more, one half or three fourths? <u>Three-fourths</u>			

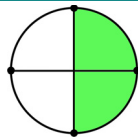
4.

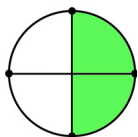
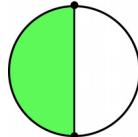
 a. Color one third.	 b. Color two thirds.	 c. Color one third.	 d. Color three thirds.
--	---	--	--

5.

 Color two thirds.	 Color one half.	 Color three fourths.	 Color two thirds.
a. Which is more, two thirds or one half? <u>two thirds</u>		b. Which is more, three fourths or two thirds? <u>three fourths</u>	

Halves and Quarters, cont.

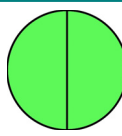
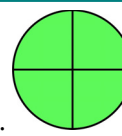
	
c. Which is more, two thirds or two quarters? <u>two thirds</u>	

	
d. Which is more, two fourths or one half? <u>Neither, they are equal.</u>	

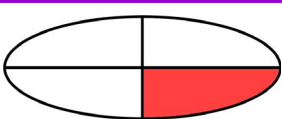
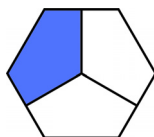
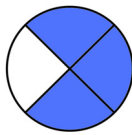
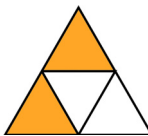
6.

a. Which is more, one half or one third? <u>one half</u> b. Which is more, one fourth or one third? <u>one third</u>	
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7.

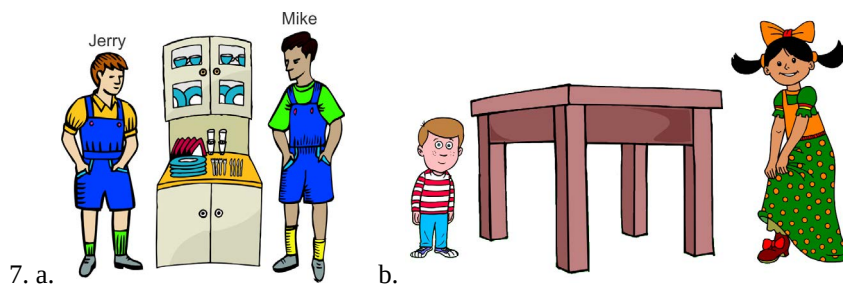
a.  The whole pie is <u>3</u> <u>thirds</u> .	b.  The whole pie is <u>2</u> <u>halves</u> .	c.  The whole pie is <u>4</u> <u>quarters/fourths</u> .
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8.

a. 	<u>1</u> <u>fourth</u> of the <u>oval</u> is colored.
b. <u>1</u> <u>third</u> of the <u>hexagon</u> is colored.	
c. 	<u>1</u> <u>half</u> of the <u>trapezoid</u> is colored.
d. <u>2</u> <u>thirds</u> of the <u>rectangle</u> are colored.	
e. 	<u>3</u> <u>quarters/fourths</u> of the <u>circle</u> are colored.
f. <u>2</u> <u>quarters/fourths</u> of the <u>triangle</u> are colored.	

Measuring Length, p. 73

1. a. Please check the student's answers.
b. Please check the student's answers.
2. The desk was about 12 baby-shoes wide.
3. Ryan's room was 81 baby-shoes wide.
Since baby-shoes are smaller than daddy-shoes, we know the number will be larger than 27.
4. Answers will vary.
5. pencil a. 5 crayons long; 10 paperclips long
pencil b. 6 crayons long; 12 paperclips long
pencil c. 4 crayons long; 8 paperclips long
pencil d. 3 crayons long; 6 paperclips long
6. a. The pen is longer than the pencil.
b. The flashlight is longer than the celery.
c. The blue (second) car is longer than the pink car.
d. The toothbrush is longer than the pencil.

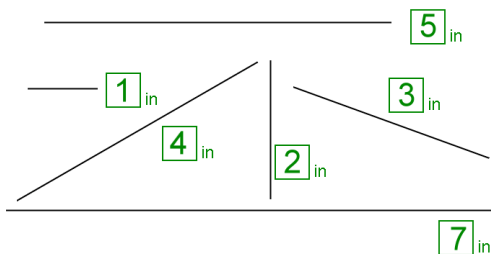


Exploring Measuring, p. 77

1. Answers will vary. Check the student's answers.
2. a. sheep 1, car 2, dinosaur 3 b. crayon 1, carrot 2, pineapple 3 c. paperclip 1, toothbrush 2, flashlight 3
3. Answers will vary.
4. Answers will vary.
5. Answers will vary.
6. The bucket held 53 smaller drinking glasses. It will hold more small glassfuls than large ones.

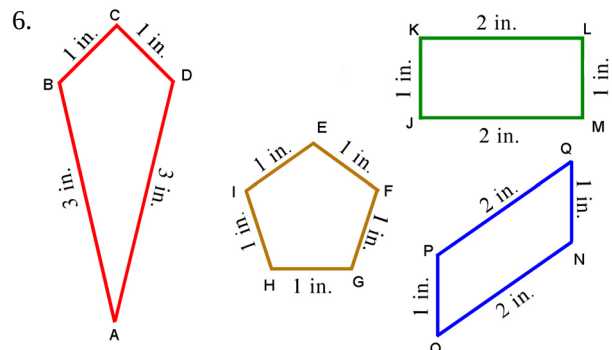
Measuring Lines in Inches, p. 79

1. a. 2 in. b. 4 in. c. 3 in. d. 5 in.
2. 1 in., 5 in., 3 in., 6 in., 5 in.
- 3.



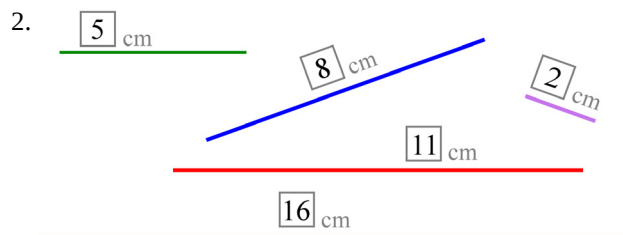
4. Triangle ABC: AB is 2 in., BC is 3 in., AC is 4 in.
Triangle DEF: DF is 5 in., DE is 4 in., EF is 3 in.

5. Check the student's lines.

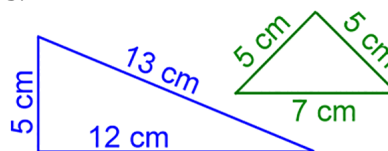


Measuring Lines in Centimeters, p. 82

1. a. 5 cm b. 3 cm c. 9 cm d. 10 cm e. 12 cm



3.



4. Check the student's lines.

5. Answers will vary.

Three-Dimensional Shapes p. 84

1. a. box b. cube c. box d. cube e. box f. box g. cube h. box

2. Answers will vary. Please check the student's work.

3. Answers will vary. Please check the student's work.

4. a. ball b. cylinder c. ball d. cylinder e. cylinder f. cylinder g. ball h. cylinder

5. cylinder, ball

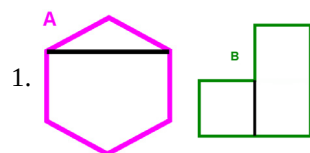
6. box, cube

7. Answers will vary. Please check the student's work.

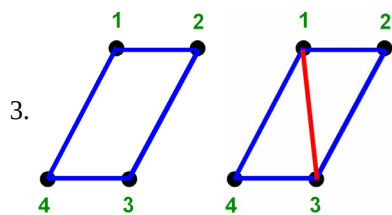
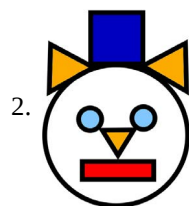
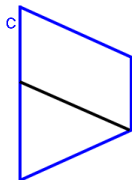
8. Answers will vary. Please check the student's work.

9. a. ball b. cylinder c. box d. cylinder

Review Chapter 6, p. 86

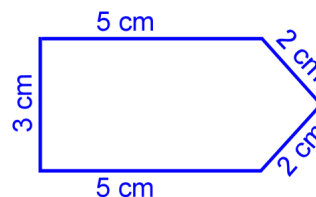


c: Answers may vary. One possibility:



It is a quadrilateral (or, to be more precise, a parallelogram).

4. 5 corners.



Chapter 7: Adding and Subtracting Within 0-100

Refresh Your Memory, p. 90

1.

7	8	9	10
5 and 2	1 and 7	4 and 5	3 and 7
6 and 1	4 and 4	8 and 1	9 and 1
1 and 6	5 and 3	2 and 7	6 and 4
2 and 5	7 and 1	1 and 8	5 and 5
4 and 3	2 and 6	3 and 6	2 and 8

2.

a.	b.	c.	d.
$7 - 1 = 6$	$8 - 3 = 5$	$9 - 2 = 7$	$10 - 3 = 7$
$7 - 5 = 2$	$8 - 6 = 2$	$9 - 3 = 6$	$10 - 8 = 2$
$7 - 3 = 4$	$8 - 2 = 6$	$9 - 5 = 4$	$10 - 5 = 5$
$7 - 6 = 1$	$8 - 7 = 1$	$9 - 7 = 2$	$10 - 6 = 4$

3.

a.	b.
$4 + 5 = 9$	$3 + 4 = 7$
$5 + 4 = 9$	$4 + 3 = 7$
$9 - 5 = 4$	$7 - 3 = 4$
$9 - 4 = 5$	$7 - 4 = 3$

4. a. 10, 9, 6 b. 9, 8, 3 c. 6, 1, 2

5. a. $2 \rightarrow 4 \rightarrow 6 \rightarrow 5 \rightarrow 4 \rightarrow 9 \rightarrow 6 \rightarrow 10 \rightarrow 3 \rightarrow 5 \rightarrow 1$
b. $7 \rightarrow 10 \rightarrow 11 \rightarrow 9 \rightarrow 3 \rightarrow 6 \rightarrow 4 \rightarrow 10 \rightarrow 5 \rightarrow 11 \rightarrow 10$

6. a. 10, 20, 30, 40, 50, 60, 70, 80, 90
b. 24, 34, 44, 54, 64, 74, 84, 94, 104
c. 18, 28, 38, 48, 58, 68, 78, 88, 98

7. a. 26, 48, 52 b. 4, 8, 6 c. 20, 42, 77 d. 40, 56, 72

Adding Without Regrouping, p. 92

1.

a. $31 + 3 = 34$	b. $32 + 6 = 38$
c. $43 + 3 = 46$	d. $47 + 2 = 49$

2.

a. $5 + 2 = 7$ $35 + 2 = 37$	b. $4 + 5 = 9$ $64 + 5 = 69$	c. $3 + 6 = 9$ $93 + 6 = 99$
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3.

a. $52 + 7 = 59$ $\underline{2} + \underline{7} = 9$	b. $33 + 1 = 34$ $3 + 1 = 4$	c. $11 + 5 = 16$ $1 + 5 = 6$
---	---------------------------------	---------------------------------

Adding Without Regrouping, cont.

4.

a. $35 + 3$	b. $12 + 6$	c. $57 + 1$	d. $64 + 3$																																																												
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5.

a. $26 + 3$

tens	ones
2	6
+	↓ 3
2	9

b. $72 + 4$

tens	ones
7	2
+	↓ 4
7	6

c. $65 + 4$

tens	ones
6	5
+	↓ 4
6	9

d. $81 + 4$

tens	ones
8	1
+	↓ 4
8	5

6.

a. $6 + 2 = 8$ $16 + 2 = 18$ $36 + 2 = 38$	b. $4 + 3 = 7$ $24 + 3 = 27$ $34 + 3 = 37$	c. $5 + 4 = 9$ $45 + 4 = 49$ $65 + 4 = 69$	d. $11 + 7 = 18$ $61 + 7 = 68$ $41 + 7 = 48$
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7.

a. $20 + 5 + 2 = 27$ $44 + 2 + 2 = 48$	b. $93 + 1 + 5 = 99$ $83 + 4 + 3 = 90$	c. $100 + 4 + 5 = 109$ $52 + 4 + 2 = 58$
--	--	--

8.

a. $18 = 10 + 8$ $25 = 20 + 5$ $55 = 50 + 5$	b. $32 = 30 + 2$ $95 = 90 + 5$ $49 = 40 + 9$	c. $66 = 60 + 6$ $89 = 80 + 9$ $78 = 70 + 8$
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9.

a. $24 + 3 < 24 + 5$	c. $17 + 2 < 19 + 2$	e. $58 < 8 + 51$
b. $83 + 5 = 85 + 3$	d. $36 + 4 < 46 + 4$	f. $66 = 5 + 61$

Puzzle Corner. The one marked with ? is the comparison you cannot do without knowing the mystery number.

Why is that? Because the comparison depends on the value of the star. If ★ is a large number, such as 100, then

★ + ★ > ★ + 20. But if ★ is a small number such as 2, then ★ + ★ < ★ + 20.

$$\star + 5 > \star + 4$$

$$\star - 5 < \star - 4$$

$$\star - 5 < \star$$

$$\star + 2 < \star + 7$$

$$\star - 5 > \star - 6$$

$$\star + \star ? \star + 20$$

Subtracting Without Borrowing, p. 95

1. a. 6, 26 b. 1, 11 c. 0, 60 d. 0, 50 e. 1, 41 f. 3, 93
2. a. 52, 2 b. $74, 6 - 2 = 4$ c. $84, 8 - 4 = 4$
3. a. 31, 32, 33 b. 50, 52, 54 c. 46, 44, 42 d. 33, 32, 30
4. a. 71, 21 b. 45, 74 c. 53, 84 d. 12, 94
5. a. 5, 6, 7 b. 1, 1, 4 c. 4, 3, 7
6. a. She sold 28 pictures in total. $21 + 7 = 28$
 b. She has two left. $28 + 2 = 30$ or $30 - 28 = 2$
 c. At 7:30. It took her three hours to paint the three pictures, and three hours later than 4:30 is 7:30.
7. a. $37 - 7 = 30$ b. $46 - 6 = 40$ e. $28 - 8 = 20$
 d. $57 - 7 = 50$ e. $85 - 5 = 80$ f. $69 - 9 = 60$

8.

a. $50 + \underline{7} = 57$	b. $\underline{86} + 2 = 88$	c. $79 - 9 = \underline{70}$
d. $\underline{25} - 5 = 20$	e. $90 - \underline{5} = 85$	f. $42 = 40 + \underline{2}$

9. a. 10, 15, 20, 25, 30, 35, 40, 45, 50
 b. 1, 6, 11, 16, 21, 26, 31, 36, 41
 c. 3, 8, 13, 18, 23, 28, 33, 38, 43

10.

a.	b.	c.
$88 - 0 = \underline{88}$	$95 - 2 = \underline{93}$	$48 - 1 = \underline{47}$
$88 - 1 = \underline{87}$	$85 - 2 = \underline{83}$	$46 - 1 = \underline{45}$
$88 - 2 = \underline{86}$	$75 - 2 = \underline{73}$	$44 - 1 = \underline{43}$
$88 - \underline{3} = 85$	$\underline{65} - \underline{2} = \underline{63}$	$\underline{42} - 1 = \underline{41}$
$88 - \underline{4} = 84$	$\underline{55} - \underline{2} = \underline{53}$	$\underline{40} - \underline{1} = \underline{39}$
$\underline{88} - \underline{5} = \underline{83}$	$\underline{45} - \underline{2} = \underline{43}$	$\underline{38} - \underline{1} = \underline{37}$
$\underline{88} - \underline{6} = \underline{82}$	$\underline{35} - \underline{2} = \underline{33}$	$\underline{36} - \underline{1} = \underline{35}$
$\underline{88} - \underline{7} = \underline{81}$	$\underline{25} - \underline{2} = \underline{23}$	$\underline{34} - \underline{1} = \underline{33}$

Adding or Subtracting Two-Digit Numbers, p. 98

1. a. 28 b. 6 c. 11 d. 15 e. 14 f. 22
2. a. 55 b. 51 c. 67 d. 48 e. 29 f. 66
- 3.

a.	b.	c.
$35 + 20 = 55$	$40 + 17 = 57$	$33 - 20 = 13$
$76 + 30 = 106$	$30 + 33 = 63$	$78 - 50 = 28$
$22 + 50 = 72$	$56 - 20 = 36$	$99 - 40 = 59$

4. a.

	tens	ones
	4	2
+	2	4
	6	6
- b.

	tens	ones
	5	3
+		6
	5	9
- c.

	tens	ones
	2	5
+	5	3
	7	8
- d.

	tens	ones
	3	5
+		4
	3	9

Adding or Subtracting Two-Digit Numbers, cont.

5. a.

tens		ones
9	5	
2	0	
—		
7	5	

b.

tens		ones
5	8	
2	6	
—		
3	2	

c.

tens		ones
2	5	
	3	
—		
2	2	

d.

tens		ones
7	9	
6	4	
—		
1	5	

6. a.

tens		ones
1	7	
2	1	
+		
3	8	

b.

tens		ones
3	4	
1	4	
+		
4	8	

c.

tens		ones
5	1	
	7	
+		
5	8	

d.

tens		ones
3	2	
	5	
+		
3	7	

7. a. 24 b. 13 c. 22 d. 12

8.

a. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><th colspan="2">tens</th><th>ones</th></tr><tr><td>2</td><td>4</td><td></td></tr><tr><td>1</td><td>3</td><td></td></tr><tr><td colspan="2">+</td><td></td></tr><tr><td>3</td><td>7</td><td></td></tr></table>	tens		ones	2	4		1	3		+			3	7		b. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><th colspan="2">tens</th><th>ones</th></tr><tr><td>2</td><td>3</td><td></td></tr><tr><td>2</td><td>5</td><td></td></tr><tr><td colspan="2">+</td><td></td></tr><tr><td>4</td><td>8</td><td></td></tr></table>	tens		ones	2	3		2	5		+			4	8		c. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><th colspan="2">tens</th><th>ones</th></tr><tr><td>2</td><td>6</td><td></td></tr><tr><td>4</td><td>1</td><td></td></tr><tr><td colspan="2">+</td><td></td></tr><tr><td>6</td><td>7</td><td></td></tr></table>	tens		ones	2	6		4	1		+			6	7		d. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><th colspan="2">tens</th><th>ones</th></tr><tr><td>2</td><td>4</td><td></td></tr><tr><td></td><td>4</td><td></td></tr><tr><td colspan="2">+</td><td></td></tr><tr><td>2</td><td>8</td><td></td></tr></table>	tens		ones	2	4			4		+			2	8	
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9. a. 50, 80, 80 b. 100, 60, 30 c. 20, 20, 50

10.

a. 57 – 21

b. 74 – 14

c. 59 – 7

d. 99 – 58

tens		ones
5	7	
2	1	
—		
3	6	

tens		ones
7	4	
1	4	
—		
6	0	

tens		ones
5	9	
	7	
—		
5	2	

tens		ones
9	9	
5	8	
—		
4	1	

11.

a. Seventeen fish were put into the freezer.

2	8
1	1
—	
1	7

b. You have to pay \$56.

2	2
3	4
+	
5	6

c. Mom is 27 years older than John.

3	8
1	1
—	
2	7

d. Matt has 28 colored pencils now.

2	2
	6
+	
2	8

Completing the Next Ten, p. 102

Review: What numbers make 10?	$1 + \underline{9} = 10$ $7 + \underline{3} = 10$ $4 + \underline{6} = 10$	$8 + \underline{2} = 10$ $5 + \underline{5} = 10$ $9 + \underline{1} = 10$	$3 + \underline{7} = 10$ $6 + \underline{4} = 10$ $2 + \underline{8} = 10$
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1. a. $33 + 7 = 40$ b. $43 + 7 = 50$ c. $27 + 3 = 30$ d. $36 + 4 = 40$ e. $62 + 8 = 70$ f. $54 + 6 = 60$

2.

a. <u>10</u> , 13, <u>20</u>	b. <u>50</u> , 57, <u>60</u>	c. <u>40</u> , 46, <u>50</u>
d. <u>80</u> , 81, <u>90</u>	e. <u>70</u> , 78, <u>80</u>	f. <u>90</u> , 94, <u>100</u>

3. a. $56 + 4 = 60$ b. $35 + 5 = 40$ c. $49 + 1 = 50$

4.

a. $3 + \underline{7} = 10$ $23 + \underline{7} = 30$	b. $4 + \underline{6} = 10$ $44 + \underline{6} = 50$	c. $7 + \underline{3} = 10$ $17 + \underline{3} = 20$
--	--	--

5. a. 7 b. 9 c. 6 d. 2 e. 6 f. 4 g. 3 h. 5 i. 8 j. 2 k. 9 l. 1

6.

a. $36 + 4 = 40$ $40 - 4 = 36$	b. $57 + 3 = 60$ $60 - 3 = 57$	c. $83 + 7 = 90$ $90 - 7 = 83$
d. $66 + 4 = 70$ $70 - 4 = 66$	e. $95 + 5 = 100$ $100 - 5 = 95$	

7. a. $30 + 7 + 3 = 40$. Jeanine needs three more dollars.
 b. $20 + 10 + 10 = 40$. Derek needs ten more dollars.
 c. $12 + 20 + 8 = 40$. Muhammad needs eight more dollars.

Puzzle corner. Answers will vary because there are many possible solutions. These are just two example solutions.

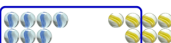
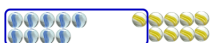
100	-	10	-	50	= 40
-		+		+	
30	+	30	+	30	= 90
70		40		80	

100	-	30	-	30	= 40
-		+		+	
30	+	10	+	50	= 90
70		40		80	

Going Over Ten, p. 105

1. a. 14 b. 17 c. 18 d. 13

2.

a.  $7 + 8 = 15$	b.  $8 + 8 = 16$
c.  $6 + 5 = 11$	d.  $9 + 4 = 13$
e.  $8 + 5 = 13$	f.  $8 + 9 = 17$
g.  $7 + 7 = 14$	h.  $9 + 9 = 18$

3. a. $13 + 9 = 22$ b. $15 + 8 = 23$ c. $17 + 7 = 24$
d. $24 + 7 = 31$ e. $25 + 6 = 31$ f. $37 + 9 = 46$
g. $36 + 6 = 42$ h. $48 + 4 = 52$ i. $58 + 5 = 63$

4.

a. $28 + 8$ $\begin{array}{r} 28 \\ + 8 \\ \hline 36 \end{array}$	b. $47 + 5$ $\begin{array}{r} 47 \\ + 5 \\ \hline 52 \end{array}$	c. $79 + 9$ $\begin{array}{r} 79 \\ + 9 \\ \hline 88 \end{array}$
d. $39 + 3$ $\begin{array}{r} 39 \\ + 3 \\ \hline 42 \end{array}$	e. $27 + 5$ $\begin{array}{r} 27 \\ + 5 \\ \hline 32 \end{array}$	f. $38 + 7$ $\begin{array}{r} 38 \\ + 7 \\ \hline 45 \end{array}$

5. a. 40 b. 42 c. 64 d. 35 e. 62 f. 61

6. a. 39 b. 40 c. 52 d. 38 e. 59 f. 62

7. a.

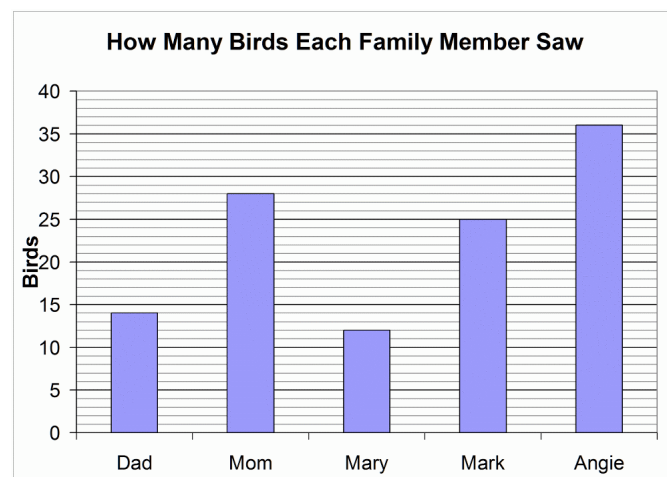
		Count
Dad		19
Mom		28
Mary		12
Mark		25
Angie		36

c. Dad saw seven more birds than Mary.

d. Angie saw 11 more birds than Mark.

3	6
2	5
1	1

b.



Subtracting from Whole Tens, p. 109

1. a. 36, 34, 33, 32
b. 25, 26, 21, 24
c. 48, 42, 47, 44
d. 53, 51, 59, 56
2. a. $70 - 10 - 10 - 10 = 40$ b. $90 - 20 - 20 - 20 = 30$
3. $10 \rightarrow 60 \rightarrow 100 \rightarrow 80 \rightarrow 20 \rightarrow 40 \rightarrow 10 \rightarrow 30 \rightarrow 90 \rightarrow 60$
4. a. 64, 65, 68 b. 42, 43, 44 c. 39, 38, 37 d. 95, 93, 91
- 5.

a. $10 - 2 = 8$ $10 + 2 = 12$	b. $60 - 5 = 55$ $60 + 5 = 65$	c. $25 - 4 = 21$ $25 + 4 = 29$
----------------------------------	-----------------------------------	-----------------------------------

6. a. $20 - 16 = 4$ pencils
b. $17 - 7 = 10$ bushes
c. $20 - 13 = 7$. Julie has 7 more stones than Carmen.
 $18 - 13 = 5$. Jane has 5 more stones than Carmen.
 $13 + 7 = 20$. Carmen needs seven more stones.

Add Using “Just One More”, p. 111

1.

a. $8 + \underline{2} = 10$ $8 + \underline{3} = 11$	b. $4 + \underline{6} = 10$ $4 + \underline{7} = 11$	c. $\underline{7} + 3 = 10$ $8 + 3 = 11$
d. $\underline{1} + 9 = 10$ $2 + 9 = 11$	e. $5 + \underline{5} = 10$ $5 + \underline{6} = 11$	f. $\underline{4} + 4 = 8$ $5 + 4 = 9$

2. a. 3, 4 b. 2, 3 c. 4, 5 d. 6 e. 2 f. 8

3.

a. $7 + 2 = 9$ $3 + 8 = 11$ $5 + 5 = 10$	b. $5 + 6 = 11$ $3 + 4 = 7$ $6 + 4 = 10$	c. $4 + 6 = 10$ $2 + 8 = 10$ $7 + 4 = 11$	d. $2 + 9 = 11$ $5 + 4 = 9$ $3 + 7 = 10$
---	---	--	---

4. a. 13 b. 14 c. 17 d. 16 e. 11 f. 19 g. 15 h. 18 i. 11 j. 17 k. 13 l. 15

5. a. Joe gave away $3 + 2 + 5 = 10$ balloons. Joe still has $12 - 10 = 2$ balloons.
b. Marsha found $7 + 6 = 13$ uniforms.
c. She had to wash $13 - 3 = 10$ uniforms.
d. There were $8 - 5 = 3$ more girls.
e. There were just enough uniforms for everyone.

A “Trick” with Nine and Eight, p. 113

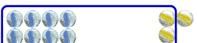
1.

a. $9 + 6$  $10 + 5 = 15$	b. $9 + 4$  $10 + 3 = 13$
c. $9 + 3$  $10 + 2 = 12$	d. $9 + 5$  $10 + 4 = 14$

2.

a. $9 + 8$ $9 + \frac{1}{10} + \frac{7}{10} = 17$	b. $9 + 7$ $9 + \frac{1}{10} + \frac{6}{10} = 16$	c. $9 + 9$ $9 + \frac{1}{10} + \frac{8}{10} = 18$
---	---	---

3.

a. $8 + 6$  $10 + \underline{4} = \underline{14}$	b. $8 + 7$  $10 + \underline{5} = \underline{15}$
c. $8 + 3$  $10 + \underline{1} = \underline{11}$	d. $8 + 4$  $10 + \underline{2} = \underline{12}$

4.

a. $8 + 8$ $8 + \frac{2}{10} + \frac{6}{10} = 16$	b. $8 + 5$ $8 + \frac{2}{10} + \frac{3}{10} = 13$	c. $8 + 7$ $8 + \frac{2}{10} + \frac{5}{10} = 15$
---	---	---

5. a. Not correct: $6 + 6 = 12$. b. Correct c. Correct d. Not correct: $9 + 7 = 16$.

6. a. There are $9 - 2 - 1 = 6$ apples left.

b. Jeremy has $9 + 6 = 15$ apples.

c. Jeremy picked $9 - 7 = 2$ more flowers. Altogether, they have $9 + 7 = 16$ flowers.

d. The line of cars was $5 + 5 + 4 = 14$ cm long.

7.

a. $7 + 3 + 5 = \underline{15}$	b. $9 + 1 + 2 = 12$	c. $7 + 3 + 5 = 15$
d. $6 + 4 + 6 = 16$	e. $8 + 2 + 4 = 14$	f. $5 + 5 + 8 = 18$

8. a. 14 b. 15 c. 13 d. 12 e. 15 f. 18 g. 14 h. 16 i. 11

Puzzle corner: a. 8 b. 6 c. 4

Adding within 20, p. 116

a. $5 + 5 = 10$	b. $6 + 6 = 12$	c. $7 + 7 = 14$
$\frac{5}{6} + \frac{6}{5} = 11$ and $\frac{6}{5} + \frac{5}{6} = 11$	$6 + 7 = 13$ and $7 + 6 = 13$	$7 + 8 = 15$ and $8 + 7 = 15$
d. $8 + 8 = 16$	e. $9 + 9 = 18$	f. $10 + 10 = 20$
$8 + 9 = 17$ and $9 + 8 = 17$	$9 + 10 = 19$ and $10 + 9 = 19$	$10 + 11 = 21$ and $11 + 10 = 21$

2. a. $10 + 7 = 17$ b. $2 + 10 = 12$ c. $10 + 4 = 14$ d. $5 + 10 = 15$

3.

a. $1 + 9 = 10$	b. $3 + 7 = 10$	c. $8 + 2 = 10$
$1 + 10 = 11$ or $2 + 9 = 11$	$3 + 8 = 11$ or $4 + 7 = 11$	$8 + 3 = 11$ or $9 + 2 = 11$
d. $6 + 4 = 10$	e. $5 + 5 = 10$	f. $7 + 3 = 10$
$6 + 5 = 11$ or $7 + 4 = 11$	$5 + 6 = 11$ or $6 + 5 = 11$	$7 + 4 = 11$ or $8 + 3 = 11$

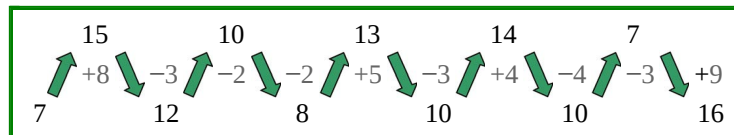
4. a. $7 + 7 = 14$ Doubles chart
 b. $9 + 7 = 16$ Trick with nine
 c. $8 + 3 = 11$ Trick with eight
 d. $6 + 7 = 13$ Just one more than a double
 e. $5 + 6 = 11$ Just one more than a sum with 10
 f. $5 + 8 = 13$ Trick with eight
 g. $8 + 8 = 16$ Doubles chart
 h. $4 + 9 = 13$ Trick with nine

5. a. $9 + 5 - 2 = 12$ Maria has twelve dollars.
 b. $9 + 3 = 12$; $8 + 3 = 11$ Ashley has one more shirt.
 c. $10 - 6 - 1 = 3$ Emily has three dollars.
 d. $8 - 2 + 4 = 10$ They have 10 tennis balls.

6.

a. $8 + 2 = 10$ $8 + 4 = 12$ $8 + 6 = 14$ $8 + 8 = 16$	b. $5 + 3 = 8$ $5 + 5 = 10$ $5 + 7 = 12$ $5 + 9 = 14$	c. $9 + 2 = 11$ $9 + 4 = 13$ $9 + 6 = 15$ $9 + 8 = 17$	d. $7 + 3 = 10$ $7 + 5 = 12$ $7 + 7 = 14$ $7 + 9 = 16$
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7.



8. a. 18, 28, 38, 48, 58, 68, 78, 88, 98
 b. 27, 37, 47, 57, 67, 77, 87, 97, 107

9.

a. $6 + 6 = 12$ $6 + 7 = 13$	b. $8 + 8 = 16$ $9 + 7 = 16$	c. $6 + 5 = 11$ $7 + 4 = 11$
---------------------------------	---------------------------------	---------------------------------

10. $9 + 6 = 15$ cm Check the student's lines.

Adding within 20, cont.

11.

a. $8 + 8 = 16$ $2 + 9 = 11$ $7 + 5 = 12$	b. $7 + 8 = 15$ $9 + 6 = 15$ $6 + 5 = 11$	c. $7 + 7 = 14$ $9 + 8 = 17$ $7 + 4 = 11$	d. $5 + 8 = 13$ $3 + 9 = 12$ $7 + 6 = 13$
e. $9 + 4 = 13$ $4 + 8 = 12$ $6 + 7 = 13$	f. $8 + 6 = 14$ $6 + 6 = 12$ $5 + 9 = 14$	g. $9 + 2 = 11$ $8 + 5 = 13$ $5 + 7 = 12$	h. $6 + 9 = 15$ $8 + 7 = 15$ $8 + 4 = 12$
i. $9 + 3 = 12$ $4 + 7 = 11$ $9 + 5 = 14$	j. $4 + 9 = 13$ $7 + 7 = 14$ $3 + 8 = 11$	k. $9 + 9 = 18$ $6 + 8 = 14$ $6 + 6 = 12$	l. $8 + 9 = 17$ $5 + 6 = 11$ $8 + 3 = 11$

Puzzle corner:
Answers may
vary. Check
the student's
work.

$7 + 6 = 13$	$8 + 8 = 16$
$+$	$+$
$8 + 3 = 11$	$6 + 9 = 15$
$\parallel \parallel$	$\parallel \parallel$
15 9	14 17

Subtract to 10, p. 120

1. b. $14 - 4 = 10$ c. $16 - 6 = 10$ d. $15 - 5 = 10$

2. a. $13 - 3 = 10$ b. $17 - 7 = 10$ c. $19 - 9 = 10$

3.

a. $14 - 7$ / $14 - 4 = 10$ / $10 - 3 = 7$	b. $15 - 8$ / $15 - 5 = 10$ / $10 - 3 = 7$	c. $16 - 8$ / $16 - 6 = 10$ / $10 - 2 = 8$
d. $13 - 6$ / $13 - 3 = 10$ / $10 - 3 = 7$	e. $12 - 6$ / $12 - 2 = 10$ / $10 - 4 = 6$	f. $13 - 4$ / $13 - 3 = 10$ / $10 - 1 = 9$

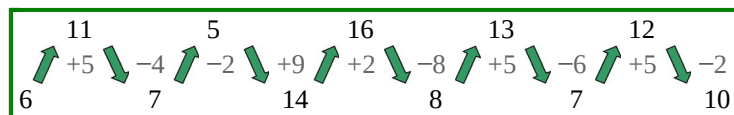
4.

a. $12 - 6$ / $12 - 2 = 10$ / $10 - 4 = 6$	b. $15 - 9$ / $15 - 5 = 10$ / $10 - 4 = 6$	c. $13 - 8$ / $13 - 3 = 10$ / $10 - 5 = 5$
d. $13 - 7$ / $13 - 3 = 10$ / $10 - 4 = 6$	e. $14 - 7$ / $14 - 4 = 10$ / $10 - 3 = 7$	f. $12 - 4$ / $12 - 2 = 10$ / $10 - 2 = 8$

5. a. 7 b. 8 c. 7 d. 8 e. 7 f. 9 g. 8 h. 5

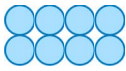
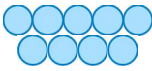
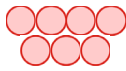
6. a. $13 - 8 = 5$ Tom is five years older than Juan. b. $13 - 9 = 4$ Tom is four years older than Alice.
c. $15 - 10 = 5$ Tom will still be five years older than Juan.

7.



Using Addition to Subtract, p. 122

1.

a.  $8 + 5 = 13$ $13 - 8 = 5$	b.  $9 + 7 = 16$ $16 - 9 = 7$
 $5 + 8 = 13$ $13 - 5 = 8$	 $7 + 9 = 16$ $16 - 7 = 9$

2.

a. $8 + 4 = 12$ $12 - 8 = 4$ $12 - 4 = 8$	b. $9 + 7 = 16$ $16 - 9 = 7$ $16 - 7 = 9$	c. $7 + 6 = 13$ $13 - 7 = 6$ $13 - 6 = 7$
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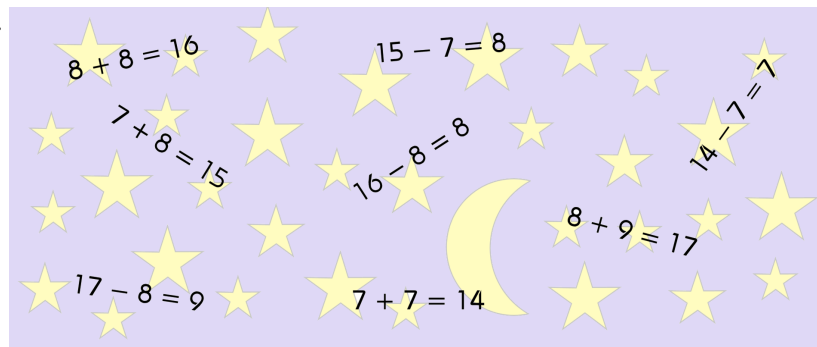
3.

a. $11 - 3 = 8$ $3 + 8 = 11$	b. $11 - 4 = 7$ $4 + 7 = 11$	c. $12 - 3 = 9$ $3 + 9 = 12$
--	--	--

4.

a. $14 - 8 = 6$ $8 + 6 = 14$	b. $15 - 7 = 8$ $7 + 8 = 15$	c. $17 - 8 = 9$ $8 + 9 = 17$
d. $12 - 8 = 4$ $8 + 4 = 12$	e. $16 - 7 = 9$ $7 + 9 = 16$	f. $13 - 7 = 6$ $7 + 6 = 13$
g. $13 - 8 = 5$ $8 + 5 = 13$	h. $11 - 7 = 4$ $7 + 4 = 11$	i. $14 - 9 = 5$ $9 + 5 = 14$

5.



The matching additions and subtractions are:

$8 + 8 = 16$ and $16 - 8 = 8$

$7 + 8 = 15$ and $15 - 7 = 8$

$8 + 9 = 17$ and $17 - 8 = 9$

$7 + 7 = 14$ and $14 - 7 = 7$

6.

a. $12 - 8 = 4$	b. $11 - 7 = 4$	c. $13 - 9 = 4$
d. $15 - 6 = 9$	e. $18 - 9 = 9$	f. $16 - 7 = 9$

7. a. $15 - 6 = 9$ Marsha has nine crayons.

$6 + 6 = 12$ Susana has 12 crayons now.

Susana has more crayons.

Susana has $12 - 9 = 3$ more crayons.

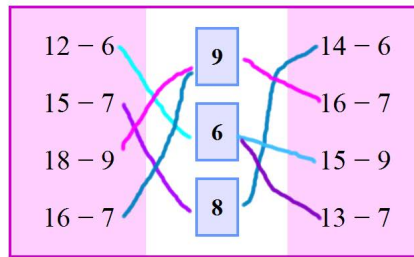
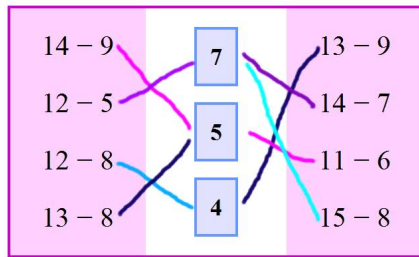
b. $7 + 8 = 15$. She has 15 stars in her drawing.

c. $12 - 7 = 5$. Matthew has \$5.

d. $6 + 8 = 14$. Neither is right. The total is \$14.

Using Addition to Subtract, cont.

8.



Some Mixed Review, p. 125

1. a. 9:30 b. 12:30 c. 6:00 d. 3:30

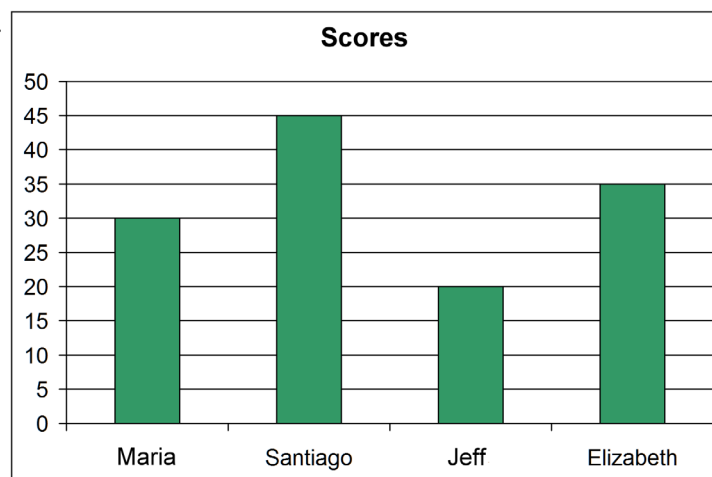
2.

Now it is:	a. 2:00	b. 8:00	c. 12:00	d. 7:30	e. 10:30
half-hour later	2:30	8:30	12:30	8:00	11:00

3.

a.	b.	c.
100 - 1 = 99	10 - 1 = 9	10 + 90 = 100
90 - 2 = 88	20 - 2 = 18	20 + 80 = 100
80 - 3 = 77	30 - 3 = 27	30 + 70 = 100
70 - 4 = 66	40 - 4 = 36	40 + 60 = 100
60 - 5 = 55	50 - 5 = 45	50 + 50 = 100
50 - 6 = 44	60 - 6 = 54	60 + 40 = 100
40 - 7 = 33	70 - 7 = 63	70 + 30 = 100
30 - 8 = 22	80 - 8 = 72	80 + 20 = 100

4.



4. a. Maria got ten more points than Jeff.

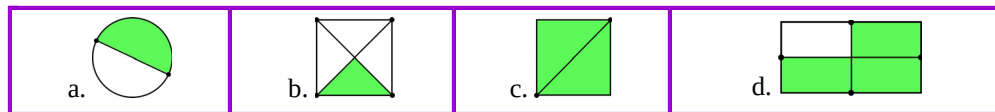
b. Santiago got ten more points than Elizabeth.

5. Answers will vary. Check the student's answers.

6. Answers will vary. Check the student's answers.

Some Mixed Review, cont.

7.



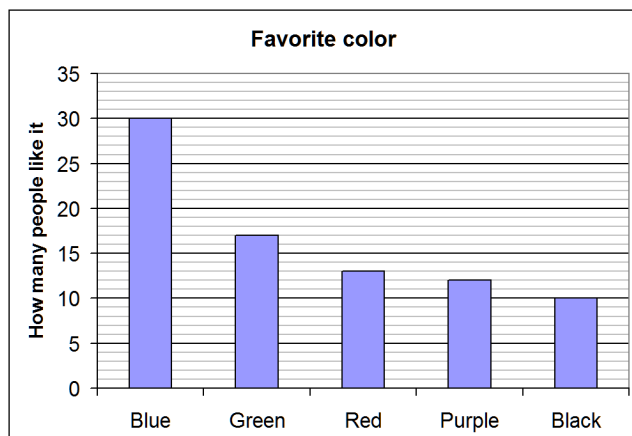
Puzzle corner:

+ 2		+ 3		+ 4	
8	<u>10</u>	9	12	7	11
18	20	19	22	17	21
38	40	59	62	47	51
68	70	69	72	77	81
98	100	89	92	97	101

Pictographs, p. 128

1. a. Jim rode the most miles. Jim rode 70 miles
 b. The boys that rode the least miles were Greg and Ernest. Greg rode 15 miles. Ernest rode 25 miles.
 c. Matthew rode 10 more miles than Dan.
 d. Dan rode 25 more miles than Greg.

2.



3. a.

	How many?	
oranges	15	
mangos	21	
bananas	24	

- b. $15 + 24 = 39$. They picked a total of 39 oranges and bananas.
 c. $21 + 3 = 24$ or $24 - 21 = 3$. Or, you can note that there is half a fruit more in the pictograph for mangos than for bananas, which means 3 pieces of fruit. So, there were three more bananas than mangos.
4. Answers will vary. Check the student's work. Possible responses include:
- How many points did Mark get? How many points did Aaron get?
 How many more points did Aaron get than Jack?
 Who got the most points? Who got the least points?
 How many points did the winner get?
 How many points more did the winner get than Jack?
 How many points did Mark and Aaron get in total?

Review Chapter 7, p. 130

1. YOU FOUND ALL OF THEM!

2.

a. $31 + 45$

	3	1
+	4	5
	7	6

b. $70 + 19$

	7	0
+	1	9
	8	9

c. $26 + 73$

	2	6
+	7	3
	9	9

d. $31 + 8$

	3	1
+		8
	3	9

e. $77 - 22$

	7	7
-	2	2
	5	5

f. $56 - 14$

	5	6
-	1	4
	4	2

g. $99 - 45$

	9	9
-	4	5
	5	4

h. $47 - 5$

	4	7
-		5
	4	2

3. b. You can use the method of finding the double and adding one for the problems below.

$7 + 8 = 15$

$6 + 7 = 13$

$6 + 5 = 11$

$8 + 9 = 17$

$5 + 5 = 10$
$6 + 6 = 12$
$7 + 7 = 14$
$8 + 8 = 16$
$9 + 9 = 18$

4. a. $9 + 9 = 18$ Doubles chart OR Trick with nine

b. $8 + 4 = 12$ Trick with eight

c. $9 + 5 = 14$ Trick with nine

d. $7 + 7 = 14$ Doubles chart

e. $7 + 8 = 15$ "Just one more" than a double OR Trick with eight

f. $6 + 5 = 11$ "Just one more" than a sum of 10 OR "Just one more" than a double

g. $3 + 9 = 12$ Trick with nine

h. $6 + 7 = 13$ "Just one more" than a double

5.

a. $11 - 2 = 9$ $11 - 4 = 7$ $11 - 5 = 6$ $11 - 6 = 5$	b. $12 - 4 = 8$ $12 - 5 = 7$ $12 - 3 = 9$ $12 - 6 = 6$	c. $13 - 5 = 8$ $13 - 6 = 7$ $13 - 4 = 9$ $13 - 7 = 6$
d. $14 - 5 = 9$ $14 - 8 = 6$ $14 - 7 = 7$ $14 - 6 = 8$	e. $15 - 6 = 9$ $15 - 9 = 6$ $15 - 7 = 8$ $15 - 8 = 7$	f. $16 - 8 = 8$ $16 - 9 = 7$ $16 - 7 = 9$ $16 - 6 = 10$

6. a. Mariana read 15 books.

b. Jose read 30 books.

c. Janet read $20 - 10 = 10$ more books than Jim.

d. Jose read $30 - 20 = 10$ more books than Janet.

e. Answers will vary.

7. a. $20 - 2 - 5 = 13$ birds are left.

b. $5 + 1 + 3 = 9$ books.

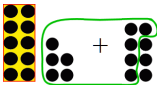
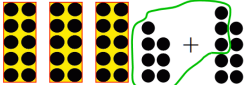
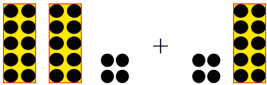
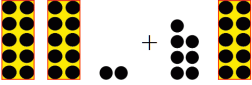
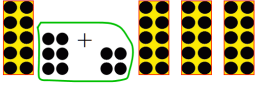
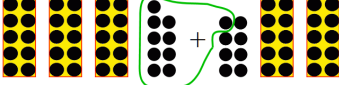
c. $20 - 14 = 6$ pages left.

d. $12 - 4 = 8$ Sam is eight years older.

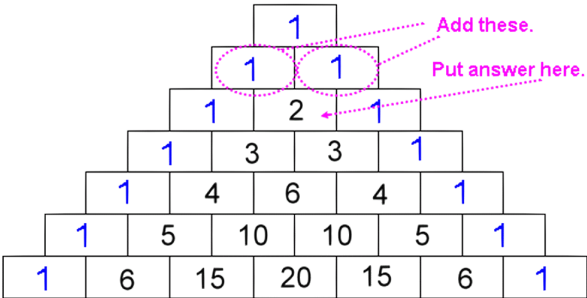
e. $\$11 + \$5 = \$16$. Yes, I will have enough with a dollar left over.

Review Chapter 7, cont.

8.

 a. $15 + 8 = 23$	 b. $37 + 9 = 46$	 c. $24 + 14 = 38$
 d. $22 + 17 = 39$	 e. $16 + 34 = 50$	 f. $39 + 28 = 67$

9.



Puzzle corner

a.	b.	c.	d.	e.																														
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Chapter: 8 Coins

Counting Dimes, Nickels, and Cents, p. 136

1. a. 30¢ b. 23¢ c. 62¢ d. 73¢ e. 42¢ f. 37¢ g. 60¢
2. a. one dime, two pennies b. four dimes
c. two dimes, four pennies d. three dimes, one penny
3. a. 15¢ b. 18¢ c. 25¢ d. 37¢ e. 35¢ f. 9¢
4. a. 15¢ b. 45¢ c. 30¢ d. 60¢ e. 25¢ f. 45¢ g. 6¢ h. 17¢ i. 40¢ j. 17¢ k. 29¢ l. 55¢

Counting Dimes, Nickels, and Cents 2, p. 139

1. a. 20¢ b. 47¢ c. 68¢ d. 48¢ e. 76¢ f. 52¢
2. a. 12¢ now b. 21¢ now c. 41¢ now d. 21¢ now e. 17¢ now f. 24¢ now
3. a. 16¢ now b. 26¢ now c. 40¢ now d. 33¢ now
4. a. two dimes, one nickel
b. three dimes, one nickel, four pennies;
c. one dime, four pennies
d. three dimes, one nickel, three pennies;
e. six dimes, three pennies
f. one dime, one nickel, one penny;
g. six dimes, one penny
h. four dimes, one nickel;
i. two dimes, one nickel, two pennies
5. a. 20¢, 21¢, 23¢, 25¢, 26¢
b. 26¢, 29¢, 30¢, 25¢, 32¢
c. 60¢, 63¢, 60¢, 76¢, 88¢

Quarters, p. 141

1. a. 50¢ b. 75¢ c. 100¢ d. 45¢ e. 55¢ f. 70¢ g. 95¢ h. 80¢ i. 85¢
2. a. 30¢ b. 80¢ c. 40¢
3. a. 31¢ b. 44¢ c. 75¢ d. 35¢ e. 51¢ f. 55¢ g. 40¢ h. 77¢ i. 98¢ j. 53¢ k. 91¢ l. 78¢
4. a. 45¢ b. 40¢ c. 21¢ d. 87¢
5. a. Left 15¢ b. Left 6¢ c. Left 15¢ d. Left 23¢ e. Left 13¢
f. Left 63¢ g. Left 31¢ h. Left 12¢ i. Left 43¢

Practicing with Money, p. 144

1. a. one quarter, four pennies
b. one quarter, two dimes, one penny
c. two quarters, one dime, two pennies
d. one quarter, two dimes, three pennies
e. three quarters, one dime (or two nickels), one penny
f. three quarters, one dime, one nickel, one penny
2. a. one quarter, one nickel
b. one quarter, one nickel, two pennies
c. one quarter, one dime
d. one quarter, two dimes
e. one quarter, one dime, one nickel, one penny
f. one quarter, two dimes, three pennies

Practicing with Money, cont.

- 3. a. two quarters
 - b. two quarters, three pennies
 - c. two quarters, one nickel, three pennies
 - d. two quarters, one dime
 - e. two quarters, one dime, one nickel, one penny
 - f. two quarters, two dimes, two pennies

Review—Coins, p. 146

- 1. a. 11¢ b. 27¢ c. 60¢ d. 32¢ e. 46¢ f. 77¢
- 2. a. two quarters, two pennies
 - b. two dimes, one nickel, two pennies or one quarter and two pennies
 - c. three quarters, one penny
 - d. three quarters, one dime
 - e. three quarters, four pennies
 - f. three dimes, four pennies
- 3. a. 56¢ b. 51¢