ANSWER KEY

Use after Unit One, Session 20 (cont.)

Page 14, Leaves & Flower Petals

1 15 petals, 5 + 5 + 5 = 15 or 3 × 5 = 15

2 14 leaves, 2 + 2 + 2 + 2 + 2 + 2 + 2 = 14 or
7 × 2 = 14

3 20 petals, 5 + 5 + 5 + 5 = 20 or 4 × 5 = 20

Page 15, Bamboo Shoot Growth Graph

1 11 feet

2 On the 8th day

3 No

4 **a** No

b Students' explanations will vary. Example:
*Because the line on the graph goes up a different
amount on some of the days. The plant only
grew 1 foot between Days 7 and 9, but it grew 2
feet between Days 2 and 4. It grew faster some
times, and more slowly other times.*

5 (challenge) It was 12 inches or 1 foot more than 2
yards tall. Students' work will vary.
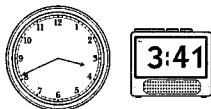
Page 16, Eyes, Ears & Whiskers

1 20 eyes, 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20
or 10 × 2 = 20

2 12 ears, 2 + 2 + 2 + 2 + 2 + 2 = 12 or 6 × 2 = 12

3 18 whiskers, 6 + 6 + 6 = 18 or 3 × 6 = 18

Page 17, Telling Time on Analog & Digital Clocks

1 **a** 1:55

b 9:15

c 7:30

2

3 (challenge) 3:41; Students' work will vary.

Page 18, Eric's Three-Coin Problem

1 Students' responses will vary. Example: *What 3
coins add up to 40¢?*

2 Eric has 3 coins in his pocket. They are worth
$0.40. What coins does he have in his pocket?

3 Students' work will vary. A quarter, a dime, and
a nickel.

Page 19, Understanding Place Value

1 **a** hundreds, 300

b ones, 4

c tens, 70

d hundreds, 500

2 **a** 96 > 69

b 326 < 362

c 127 < 217

d 960 > 906

e 312 > 231

f 304 < 430

g 719 < 790

3 Students' responses will vary.

Page 20, Alexis Walks Home from School

1 Students' responses will vary. Example: *What time
did Alexis get home from school?*

2 Alexis started walking from home from school at
3:15. She got home 20 minutes later. What time did
she get home?

3 **a** Students' work will vary.

b 3:35

4 (challenge) 2:20

Use after Unit Two, Session 15

Page 21, Expanded Notation: 3-Digit Numbers

1

	Hundreds	Tens	Ones	Equation
ex	200	40	5	200 + 40 + 5 = 245
a	100	30	7	100 + 30 + 7 = 137
b	200	60	5	200 + 60 + 5 = 265

2 (challenge) Part b, 128. Student work will vary.

Use after Unit Two, Session 15 (cont.)

Page 22, Centimeters & Decimeters

1 a 12 cm

b 7 cm

c 8 cm

2 a Students' responses will vary, 9 cm

b Students' responses will vary, 11 cm

c Students' responses will vary, 8 cm

3 a (challenge) 3 cm

b (challenge) 7 ½ cm

Page 23, Place Value Practice: 3-Digit Numbers

1 a 845

b 508

c 620

d 587

e 914

2 a 400 + 30 + 7

b 500 + 8 or 500 + 0 + 8

c 500 + 40 + 9

d 600 + 90 + 2

e 700 + 40 + 9

3 a 347, 437, 473, 734

b 316, 360, 603, 630

c 109, 119, 190, 191

d (challenge) 6,017; 6,071; 6,107; 6,701

Page 24, Writing Multiplication Equations

1 2, 4, 6, 8, 10, 12; 6 × 2 = 12 ears

2 10, 20, 30, 40, 50, 60, 70, 80; 8 × 10 = 80 cents

3 5, 10, 15, 20, 25, 30, 35; 7 × 5 = 35 arms

4 (challenge) 12, 24, 36, 48, 60; 5 × 12 = 60 eggs

Page 25, Loops & Groups

1 3 × 10 = 30

2 7 × 2 = 14

3 5 × 5 = 25

4 5 × 2 = 10

5 2 × 10 = 20

Page 26, Alfonso's Money Problem

1 Responses will vary. Example: *How much money did Alfonso have after he spent some and got his allowance?*

2 Alfonso had $23. He spent $8 at the store during the day. That night, his dad gave him $5 for his allowance. How much money did Alfonso have at the end of the day?

3 a Students' work will vary.

b $20

4 (challenge) He should give her $5.50. Then they'll each have $14.50.

Page 27, More Related Addition & Subtraction Facts

1 11, 13, 12, 12, 14, 11, 13

17, 13, 14, 12, 16, 14, 18

2 13, 6, 9, 7, 7, 6, 4

9, 6, 3, 7, 8, 4, 9

3 (challenge) 803; 40; 50; 100; 72; 1,000; 6,000

500; 100; 700; 2,000; 18,000; 316; 751

Page 28, Ling's Basketball Cards

1 Students' responses will vary. Example: *How many basketball cards does Ling have now?*

2 Ling had 34 basketball cards. She gave away 18 cards. Then she bought a pack of 6 new cards and her friend gave her 2 more. How many cards does she have now?

3 a Students' work will vary.

b 24 basketball cards

4 (challenge) 6 pages; students' work will vary.

Page 29, Addition & Subtraction Practice

1 13, 12, 13, 11, 15, 14, 12

15, 17, 18, 11, 12, 13, 16

2 9, 9, 8, 8, 5, 8, 8

6, 7, 8, 8, 3, 9, 9

3 (challenge) 400, 3, 997, 300, 360, 598, 2

20, 898, 158, 108, 275, 50, 107

4 (challenge) 205, 500, 208

ANSWER KEY

Use after Unit Two, Session 15 (cont.)

Page 30, Comparing Fractions

Show these fractions.		Compare the fractions with < or >.
1		
$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{3} < \frac{1}{2}$
2		
$\frac{2}{3}$	$\frac{2}{4}$	$\frac{2}{3} > \frac{2}{4}$
3		
$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4} > \frac{5}{8}$

Use after Unit Two, Session 30

Page 31, Patterns & Sums

1 **a** 37, 47, 67, 77, 107

 b 68, 88, 128, 148, 208

 c 94, 184, 214, 304

2 87, 48, 83, 106, 69, 73, 78

3 **a** 87

 b 54

 c 91

 d 111

 e (challenge) 317

 f (challenge) 738

Page 32, Adding Money Amounts

1 **a** Students' work will vary. $0.73 + $1.65 = $2.38

 b Students' work will vary. $1.46 + $0.87 = $2.33

 c Students' work will vary. $0.83 + $1.39 = $2.22

2 Students' work will vary. 1 quarter, 1 dime, 2 nickels, and 3 pennies

Page 33, Double-Digit Addition

1 **a** 95

 b 77

 c 84

 d 135

 e 152

 f 170

2 204 baseball cards; students' work will vary.

Page 34, Telling Time to the Minute

1 **a** 1:47, choice 2

 b 8:19, choice 3

2 **a** 4:28

 b 11:49

3 Fourth clock, 9:07

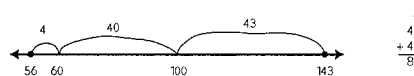### Page 35, Number Patterns

1 **a** 60, 75, 120

 b 100, 125, 200

 c 72, 132, 162,

2 **a** 36, 60, 72, 108, 132

 b 39, 65, 78, 117, 143

3 (challenge) 156 and 312. Students' explanations will vary.

Page 36, Using the Number Line to Find Differences

1 They have 52 more miles to go. Students' work will vary. Example:
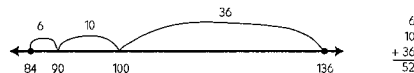
2 She has 87 pages left to read. Students' work will vary. Example:

Page 37, Inches & Feet

1 **a** 4 inches

 b 2 inches

 c 6 inches

 d 5 inches

2 **a** 2 feet

 b 3 feet

3 57 inches longer; students' work will vary.

4 (challenge) 45 inches and 39 inches; students' work will vary.

Page 38, Double-Digit Subtraction

1 **a** 39

 b 46

 c 38

2 **a** Choice 2, The open pack has 17 sheets of paper.

 b Mr. Jones needs to borrow 59 more sheets of paper. Students' work will vary.

Use after Unit Two, Session 30 (cont.)

Page 39, Target Practice

1

Target Number	First Number	Circle one number.	Show your work.
a 120	63	78 ⊙58	63 is almost 60. 58 is almost 60. 60 + 60 = 120
b 150	56	⊙91 76	56 is close to 50. You need to add almost 100 more.
c 140	76	89 ⊙68	76 is close to 70. So is 68. 70 + 70 = 140

2 75, 168, 99, 124, 103, 429, 21

3 (challenge) In the fourth problem, numbers in the hundreds place will vary.

```
  1 [2] 6      1 8 [2]     [3] 2 5     [2][4] 6
-   6 [4]    -   [7] 6    - 1 7 [0]    -[1] 3 8
    6 2        1 0 6       1 [5] 5      1 0 8
```

Page 40, Subtraction Problems

1 a Students' work will vary, 81
  b 81 + 157 = 238

2 a First choice, The snack bar cost 89¢.
  b $2.56; students' work will vary.

Use after Unit Three, Session 9

Page 41, Right, Acute & Obtuse Angles

1 a

b

c
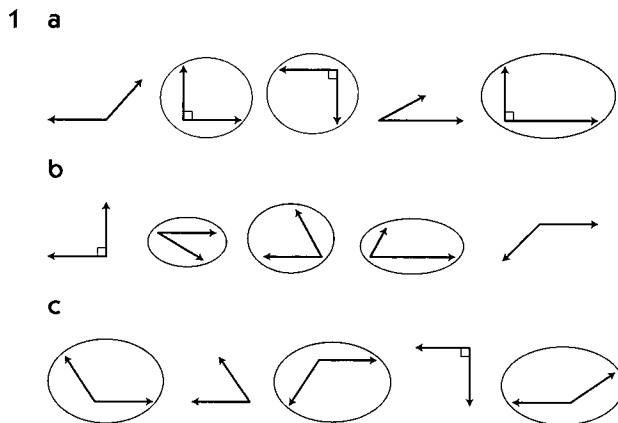
2 Students' work will vary.

3 Students' work will vary.

Page 42, Parallel, Intersecting & Perpendicular Lines

1 a Parallel
  b Intersecting
  c Intersecting and perpendicular
  d Parallel

2 Students' work will vary.

3 Students' work will vary.

Page 43, Angles & Sides

1

2

3

4
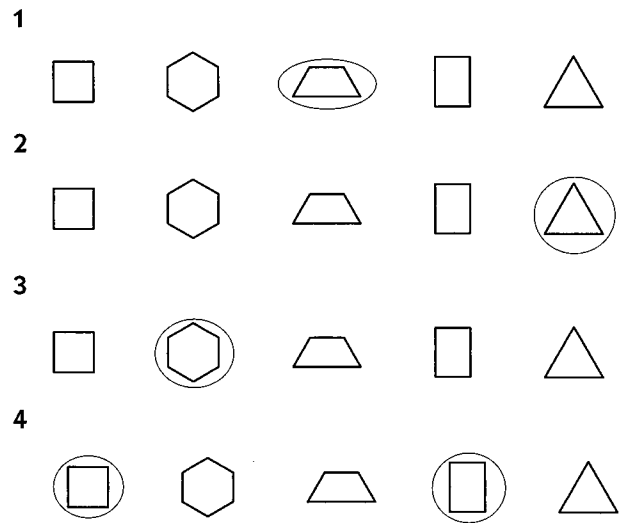
Page 44, Perimeter Practice

1 Students' work will vary.

Page 45, Different Kinds of Quadrilaterals

1 a parallelogram, rectangle
  b parallelogram

2 She is right. Students' explanations will vary. Example: *This shape has 2 pairs of parallel sides so it's a parallelogram. It also has 4 right angles and 4 sides that are equal, so it's a rectangle, a rhombus, and a square.*

Use after Unit Three, Session 9 (cont.)

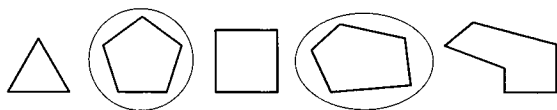### Page 46, Finding the Perimeters of Quadrilaterals

1

2 a Shape a is a rhombus.

b Students' explanations will vary. Example:
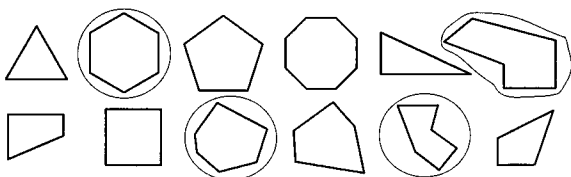*It has 4 sides that are all the same length.*

Page 47, Shape Sorting

1 a

b They have 5 sides.

2 a It will have 6 sides.

b

Page 48, More Perimeter Practice

1 a 480 meters; students' work will vary.

b 280 meters; students' work will vary.

c 180 meters; students' work will vary.

2 (challenge) Students' work will vary. Examples:
Example 1: *a square with side lengths of 5 centimeters.*
Example 2: *a rectangle 6 centimeters long and 4 centimeters wide.*
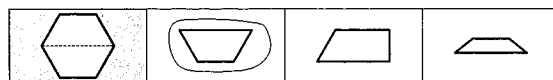
Page 49, Dividing & Combining Shapes

1
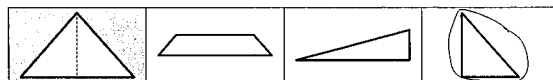
2

3

4

5

Page 50, Sandbox & Garden Problems

1 a Students' sketches will vary.

b 370 inches

2 34 bricks; students' work will vary.

Use after Unit Three, Session 15

Page 51, Adding 2-Digit Numbers

1 a 95

b 88

c 81

d 117

e 141

f 110

g 157

h 117

i 162

j 130

k 120

l 178

m 160

2 (challenge)

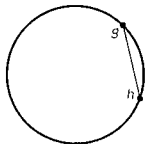$$
\begin{array}{r} \boxed{3}\ 8 \\ +\ 6\ \boxed{5} \\ \hline \boxed{1}\ 0\ 3 \end{array}
\qquad
\begin{array}{r} \boxed{8}\ 4 \\ +\ 5\ \boxed{9} \\ \hline \boxed{1}\ 4\ 3 \end{array}
\qquad
\begin{array}{r} \boxed{2}\ \boxed{9} \\ +\ 7\ 7 \\ \hline 1\ 0\ 6 \end{array}
\qquad
\begin{array}{r} 8\ 7 \\ +\boxed{4}\ \boxed{8} \\ \hline 1\ 3\ 5 \end{array}
$$

Use after Unit Three, Session 15 (cont.)

Page 52, All About Circles
1 **a** Circumference; Second choice
   b Radius; Third choice
   c Center; First choice
   d Diameter; Fourth choice
2 Diameter
3

Page 53, More Subtraction Problems
1 **a** 121
   b 207
   c 45
   d 233
   e 236
   f 238
2 Third grade has 3 more students than fourth grade. (There are 53 students in third grade and 50 students in fourth.) Students' work will vary.

Page 54, Perimeters of Different Shapes
1 **a** 340 feet; students' work will vary.
   b 300 feet; students' work will vary.
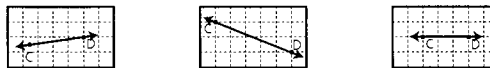**2** (challenge) Students' work will vary.

Page 55, Thinking About Triangles
1 All of the triangles have 1 right angle.
2 **a** Fourth choice, the equilateral triangle
   b Each triangle in the group has 3 sides of equal length.
3 All of the triangles have 2 sides that are the same length.

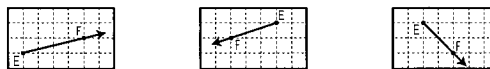## Page 56, Different Types of Triangles
1 **a** Obtuse
   b Right
   c Acute
2 **a** Isosceles
   b Scalene
   c Equilateral

Page 57, Drawing Line Segments, Lines & Rays
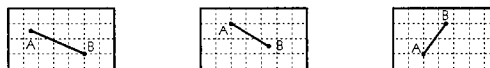**1** **a–c**

2 **a–c**

3 **a–c**

Page 58, Drawing Shapes
1 Students' work will vary.
2 Students' work will vary.
3 Students' work will vary.
4 Students' work will vary.
5 (challenge) Five sides; students' explanations will vary.

Page 59, Slides, Turns & Flips
1 **a** Flip. Third choice.
   b Slide. First choice.
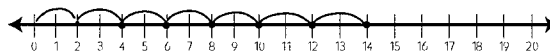   **c** Turn. Second choice.
   d Flip. Third choice.

Page 60, Garden Patch Problems
1 56 feet of fencing; students' work will vary.
2 Students' work will vary. Dimensions of rectangles with a perimeter of 26 feet are: 1' × 12', 2' × 11', 3' × 10', 4' × 9', 5' × 8', and 6' × 7'.
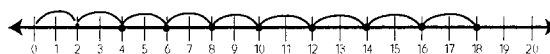**3** (challenge) Students' work will vary.

Use after Unit Four, Session 11

Page 61, Equal Jumps on the Number Line
1 8, 4, 5, 3, 9, 6, 8
4, 20, 10, 14, 12, 18, 16
2 **a** 7 × 2 = 14

   b 9 × 2 = 18

   c 8 × 2 = 16