# Grade 3 Practice Book Answer Keys

**ANSWER KEY**

## Use after Unit One, Session 10

### Page 1, Addition & Subtraction Fact Practice

**1**  4, 6, 8, 10, 12, 14, 16, 18

**2**  5, 7, 9, 11, 13, 15, 17, 19

**3**  2, 3, 4, 5, 6, 7, 8, 9

**4**  1, 2, 1, 2, 2, 1, 2, 1

**5**  (challenge) Students' responses will vary. Example: *The answers to all the doubles facts are even. The answers to all the neighbors facts are odd.*
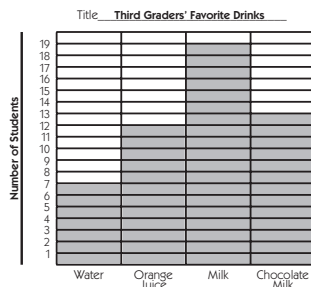
### Page 2, Sam's Pet Graph

**1**  Dogs

**2**  4 students

**3**  3 more students chose dogs than cats.

**4**  5 more students chose cats than birds.

**5**  **a**  Students' responses will vary. Example: *How many students did Sam survey?*

    **b**  Students' responses will vary. Example: *Sam surveyed 23 students.*

### Page 3, Numbers in the Hundreds

**1**  **a**  147

    **b**  302

    **c**  178

**2**  **a**  226, 262, 226 < 262

    **b**  307, 317, 307 < 317

    **c**  894, 849, 894 > 849

### Page 4, The Cafeteria Survey

**1**  Students' work may vary slightly. Example:



**2**  51 students; students' work will vary.

**3**  Milk was the most popular drink.

**4**  **a**  Students' responses will vary. Example: *How many more students voted for milk than water?*

    **b**  Students' responses will vary. Example: *12 more students voted for milk.*

### Page 5, Fast Tens & Fast Nines Practice

**1**  12, 13, 14, 15, 16, 17, 18, 19

**2**  11, 12, 13, 14, 15, 16, 17, 18

**3**  8, 2, 5, 7, 3, 6, 4, 9

**4**  10, 10, 10, 10, 10, 10, 10, 10

**5**  (challenge) Students' responses will vary. Example: *The answers to both problems go in counting order.*

### Page 6, Jorge's Saving Plans

**1**  4 weeks

**2**  10 weeks

**3**  12 weeks

**4**  (challenge) 7 more weeks after the 7th week; 14 weeks in all.

### Page 7, Missing Numbers Fill-In

**1**  5, 7, 4, 2

    10, 1, 3, 6

**2**  2, 8, 3, 18

    5, 6, 4, 14

**3**  7, 10, 9, 7, 7, 11

    8, 9, 9, 3, 14, 5

**4**  (challenge) Students' responses will vary. Example: *They are all doubles addition facts.*

### Page 8, Name the Fraction

**1**  **a**  $^1/_3$

    **b**  $^1/_4$

    **c**  $^1/_2$

    **d**  $^1/_4$

    **e**  $^1/_3$

**2**  (challenge) $^1/_4$ of the array is green.



### Page 9, Related Addition & Subtraction Facts

**1**  10, 10, 10, 10, 11, 13, 14

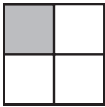**2**  11, 12, 12, 13, 14, 13, 12

## Use after Unit One, Session 10 (cont.)

### Page 9, Related Addition & Subtraction Facts (cont.)

**3**  5, 7, 5, 5, 8, 6, 6

6, 8, 4, 7, 8, 5, 9

**4**  (challenge) 300, 390, 610, 900, 810, 700, 700

**5**  (challenge) 127, 340, 116, 96, 203, 225, 111
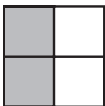
### Page 10, Fraction Fill-Ins

**1**  **a**  One of four regions shaded. Example:



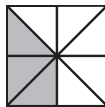 **b**  One of three regions shaded. Example:



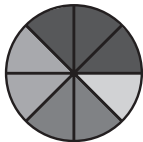 **c**  Two of four regions shaded. Example:



 **d**  (challenge) Four of six regions shaded. Example:



 **e**  (challenge) Three of eight regions shaded. Example:



**2**  (challenge) $^2/_8$ of the circle is blue. ($^1/_4$ is also acceptable.) Example:



**3**  (challenge) $^2/_{12}$ of the rectangle is brown. ($^1/_6$ is also acceptable.) Example:



## Use after Unit One, Session 20

### Page 11, Dollar Signs & Decimal Points

**1**  **a**  $0.05

 **b**  $0.10

 **c**  $0.25

**2**  **a**  $0.03

 **b**  $0.30

 **c**  $0.50

 **d**  $0.25

 **e**  $0.45

**3**  **a**  (challenge) 1 quarter, 1 dime, 2 nickels, 1 penny

 **b**  (challenge) 3 dimes, 3 nickels, 3 pennies

### Page 12, Telling Time to the Hour, Half Hour & Quarter Hour

**1**  **a**  4:00

 **b**  10:05

 **c**  3:30

 **d**  2:45

 **e**  11:15

**2**  (challenge) Clock e

**3**  (challenge) Clock d

**4**  (challenge) Clock c

### Page 13, More Dollar Signs & Decimals

| Coin Collection | Value of Collection | Grid |
| --- | --- | --- |
| example | $0.55 | |
| 1 | $0.51 | |
| 2 | $0.42 | |
| 3 | $0.45 | |

## 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** <u>Eric has 3 coins in his pocket. They are worth $0.40.</u> 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** <u>Alexis started walking from home from school at 3:15. She got home 20 minutes later.</u> 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.