

## Answer Key

### Chapter 1

#### 1a

- 1 600
- 2 20
- 3 4
- 4 624
- 5 200
- 6 10
- 7 8
- 8 218
- 9 400
- 10 30
- 11 3
- 12 433

Answers will vary. Sample: The 3s have different values because they differ in place value. The 3 in the ones place has a value of 3. The 3 in the tens place has a value of 30.

#### 1b

- 1 200, 300, 400, 500  
Hundreds
- 2 310, 320, 330, 340  
Tens
- 3 241, 242, 243, 244  
Ones

#### 1c

Answers will vary. For each item, check that the number written on the blank matches the base-ten blocks in the place-value chart.

#### 1d

- 1 644, 645, 646  
Ones
- 2 660, 760, 860  
Hundreds
- 3 857, 867, 877  
Tens

Answers will vary. Sample: The place value of the changing digit tells me if I should count on by hundreds, tens, or ones.

#### 1e

- 1 423
- 2 537

- 3 600; 70; 2
- 4 300; 80; 8
- 5 200; 30; 5
- 6–8 Answers will vary. Check that the numbers tally.

#### 1f

- 1 <  
357; less; 368  
357 < 368
- 2 >  
434; greater; 432  
434 > 432

#### 1g

- 1 624, 625, 626  
Ones
- 2 308, 408, 508  
Hundreds
- 3 432, 442, 452  
Tens

#### 1h

- 1 631, 632, 633, 634
- 2 500, 510, 520, 530
- 3 716, 717, 718, 719
- 4 660, 670, 680, 690

#### 1i

- 1 642, 527, 509
- 2 674, 823, 923
- 3 Answers will vary

#### 1j

Number line: 34, 44, 54, 64, 74, 84, 94, 104, 114, 124, 134

- 1 104
- 2 44
- 3 34

#### 1k

Number line: 97, 107, 117, 127  
127

### Chapter 2

#### 2a

- 1 5
- 2 6

## Answer Key

3 8  
4 9  
5 3  
6 7  
7 7  
8 6  
9 4  
10 5

### 2b

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

### 2c

1 5  
2 3  
3 4  
4 7  
5 6  
6 2

Answers will vary. Sample: When I add zero to a number, the number remains the same. When I subtract zero from a number, the number also remains the same.

### 2d

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

### 2e

1 5  
2 1  
3 6

4 6  
5 7  
6 4  
7 3  
8 9  
9 8  
10 7

### 2f

1 5; 15  
15  
2 8; 2  
10; 4; 14  
14  
3 2; 7  
10; 7; 17  
17  
4 6  
10; 6; 16  
16

### 2g

1 12  
2 14  
3 14  
4 15  
5 17  
6 13  
7 11  
8 16

Answers will vary. Sample: I find it easier to count on than make a ten when adding numbers because making a ten takes many steps.

### 2h

1 8  
1; 16; 17  
17  
2 5  
10; 1; 11  
11  
3 3; 3; 1  
6; 1; 7  
7  
4 2; 2; 1  
4; 1; 5  
5

**Answer Key**

5 4; 4; 1  
8; 1; 9  
9

6 7; 7; 1  
14; 1; 15  
15

**2i**

1 2; 6  
2; 12; 14  
14

2 4; 5  
4; 10; 14  
14

3 3; 5; 5  
3; 10; 13  
13

4 2; 7; 7  
2; 14; 16  
16

5 6; 6; 3  
12; 3; 15  
15

6 5; 5; 2  
10; 2; 12  
12

**2j**

1 4  
2  
4; 2; 6  
6

2 8  
1  
8; 1; 9  
9

3 10; 6; 7  
10; 7; 3  
6; 3; 9  
16; 7; 9

4 10; 2; 7  
10; 7; 3  
2; 3; 5  
12; 7; 5

5 10; 3; 5  
10; 5; 5  
3; 5; 8  
13; 5; 8

6 10; 5; 6  
10; 6; 4

5; 4; 9  
15; 6; 9

**2k**

Answers will vary

**2l**

1 384

2 798

3 799

4 478

5 300

6 40

7 9

8 70

**2m**

1 99

2a 67

2b 1

**2n**

For each item, the pupil can circle any ten blocks in the ones column.

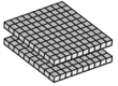
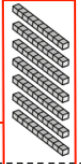

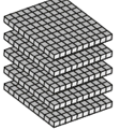
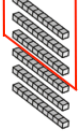

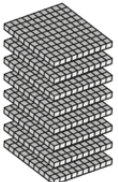


1 41

2 32

3 583

**2o**

1 839

Hundreds	Tens	Ones
		
		
		

2 10

3 Hundreds

## Answer Key

### 2p

- 1 486
- 2 790
- 3 939
- 4 769
- 5 938
- 6 631

Answers will vary. Sample: Each digit in a number has its own place value. Regrouping puts digits with the same place value together.

### 2q

- 1 3  
30; 80  
3
- 2 3  
300; 900  
3
- 3 3  
3; 4  
3
- 4 1
- 5 1; 0

### 2r

- 1a Meghan
- 1b Patrick
- 2  $432 + 399 = 831$   
Patrick has 831 stamps.
- 3 Answers will vary.  
Answers will vary. Sample:  
Fewer does not always mean that we should subtract. We have to understand the question to know what to do.

## Chapter 3

### 3a

- 1 655

Hundreds	Tens	Ones
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

- 2 736

Hundreds	Tens	Ones
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

### 3b

- 1 154
- 2 513

### 3c

- 1  $426 - 123 = 303$
- 2a 303; 300; 0; 3
- 2b 300
- 2c 0
- 2d 3

### 3d

Hundreds	Tens	Ones
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

- 325

### 3e

- 1 7;  $19 + 7 = 26$
- 2 25;  $25 + 29 = 54$
- 3 295;  $295 + 62 = 357$
- 4 582;  $582 + 191 = 773$

### 3f

- 1 907;  $907 + 57 = 964$
- 2 341;  $341 + 491 = 832$
- 3 255;  $255 + 397 = 652$
- 4  $426 - 71 = 355$   
 $355 + 71 = 426$
- 5 No

## Answer Key

### 3g

1 7;  $39 + 38 = 77$

2 1;  $4 + 18 = 22$

3 4;  $216 + 29 = 245$

4 6; 7;  $197 + 462 = 659$

Answers will vary. Sample: First, I subtract the ones and check if I need to regroup a ten. Next, I subtract the tens and check if I need to regroup a hundred. Then, I figure out the missing digits and write them in the correct place value. Finally, I work backwards to do my check.

### 3h

1 137;  $137 + 63 = 200$

2 226;  $226 + 74 = 300$

3 419;  $419 + 81 = 500$

4 313;  $313 + 87 = 400$

5 244;  $244 + 456 = 700$

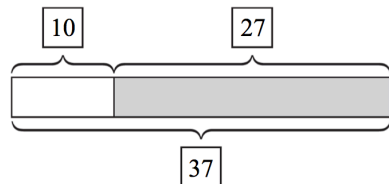
6 351;  $351 + 549 = 900$

Answers will vary. Sample: No.

We only change place values when we regroup. The total value of the number stays the same.

## Chapter 4

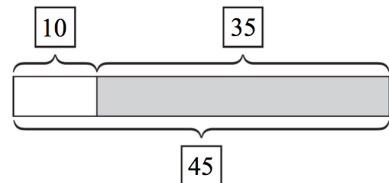
### 4a



$$10 + 27 = 37$$

37

### 4b

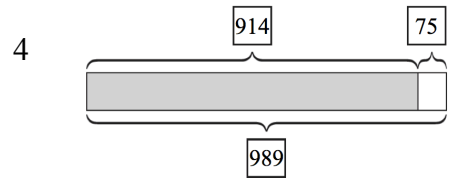
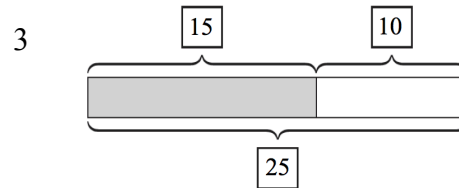
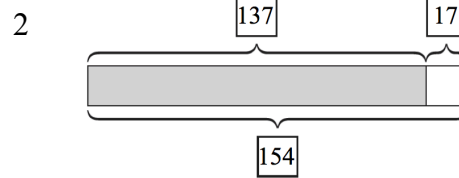
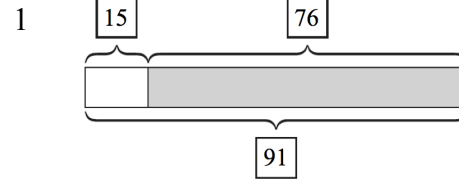


$$45 - 35 = 10$$

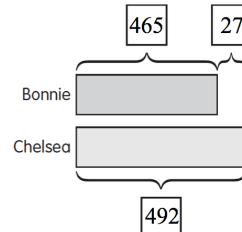
$$10 + 35 = 45$$

10

### 4c



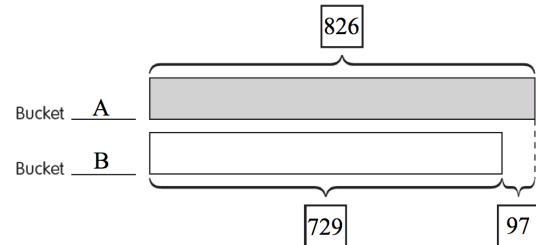
### 4d



$$465 + 27 = 492$$

492

### 4e



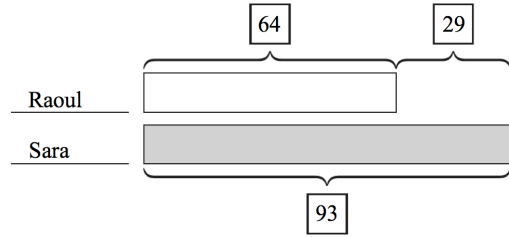
$$826 - 97 = 729$$

$$729 + 97 = 826$$

729

## Answer Key

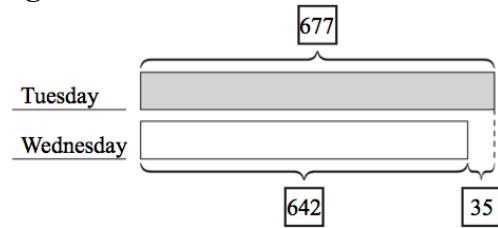
4f



$$64 + 29 = 93$$

93

4g

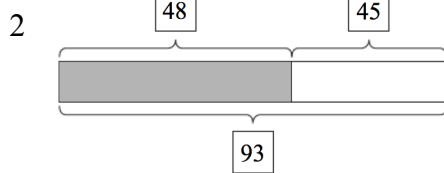
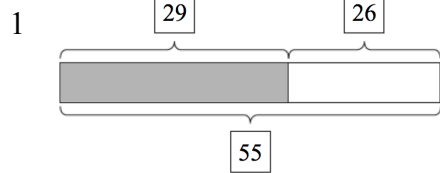


$$677 - 35 = 642$$

$$642 + 35 = 677$$

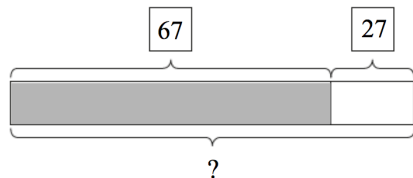
642

4h



4i

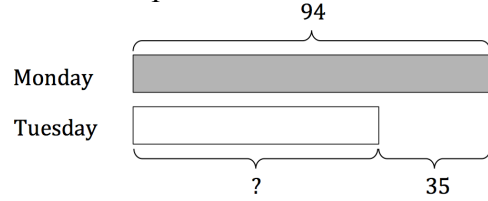
1 Part-part-whole



$$67 + 27 = 94$$

94

2 Comparison



$$94 - 35 = 59$$

$$59 + 35 = 94$$

59

4j

Answers will vary

## Chapter 5

5a

- 1 2; 2; 4  
2; 2; 4
- 2 5; 5; 10  
2; 5; 10
- 3 7; 7; 7; 21  
3; 7; 21
- 4 3; 3; 3; 9  
3; 3; 9

5b

- 1 3; 15  
3; 5; 15
- 2 2; 18  
2; 9; 18

5c

- 1 8; 8  
Yes
- 2 35; 21  
No
- 3 12; 18  
No
- 4 24; 32  
No

5d

- 1 5; zero  
0
- 2 0; 0; 0; 0; 0; 0; 0; 0; 0; 0  
0
- 3 4; zero  
0

## Answer Key

- 4 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0  
0  
5 0; 5  
0  
6 0  
7 0  
8 0  
9 0  
10 0  
11 0

### 5e

Pictures drawn will vary

- 1 5  
2 7  
3 9  
4 4  
5 6  
6 9

### 5f

- 1 6; 6  
2 3  
3 2  
4 6; 3; 2

### 5g

- 1 5; 3  
5; 5; 5; 0  
2 14; 7; 2  
14; 7; 7; 0

### 5h

- 1 0  
2 4; 0; 0  
3 0; 0; 0; 0; 0  
4 0  
5 Answers will vary

### 5i

- 1 6; 6; 6; 6; 24  
4; 6; 24  
6  
2 35; 7; 5  
7; 7; 7; 7; 7; 0  
5  
3 12; 2; 6  
2; 2; 2; 2; 2; 2; 0  
6

## Chapter 6

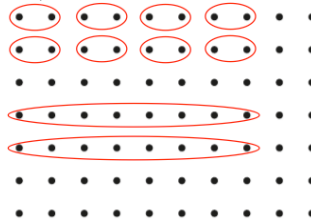

### 6a

- 1 4; 4  
2 12; 12  
3 8; 8  
4 10; 10

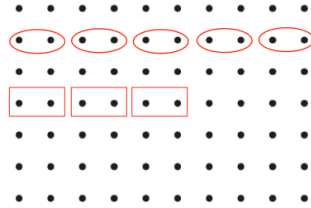
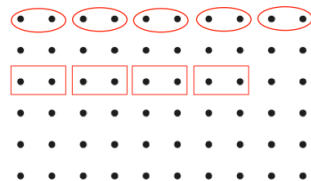
### 6b

- 1 6; 6  
2 8; 6, 8  
3 14; 6, 8, 10, 12, 14  
4 18; 6, 8, 10, 12, 14, 18

### 6c

- 1 16; 16  
  
2 10; 10  


### 6d

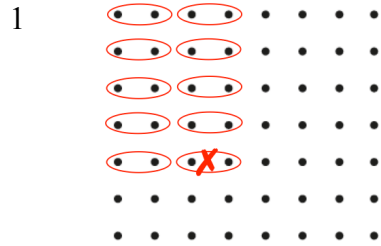
- 1 10; 6  
10; 6; 16  
16  
  
2 10; 8  
10; 8; 18  
18  


## Answer Key

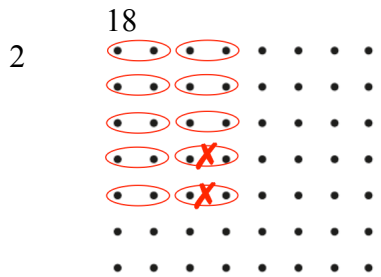
**6e**

- 1 4  
14; 14
- 2 2  
12; 12
- 3 4  
16; 16
- 4 6  
14; 14

**6f**

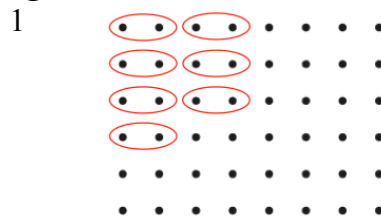


- 1  
20; 2; 18

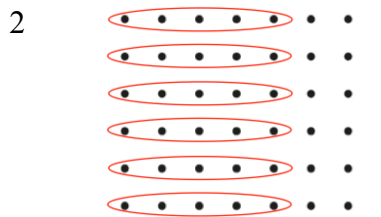


- 2  
20; 4; 16  
16

**6g**



- 7; 2; \$14  
\$14



- 6; 5; \$30  
\$30

**6h**

- 1 The pupil must shade 5, 10, 15, 20, ..., 100.
- 2 Answers will vary. Sample: The shaded numbers have 5 or 0 in the ones place.

**6i**

- 1 30
- 2 20
- 3 45
- 4 35
- 5 15
- 6 10
- 7 40
- 8 25

**6j**

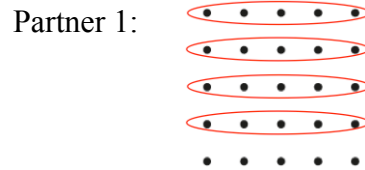
- 1 Circle any 7 groups of 5 dots.
- 2 Circle any 9 groups of 5 dots.

**6k**

- 1 3; 30
- 2 6; 60
- 3 4; 40
- 4 5; 50
- 5 2; 20

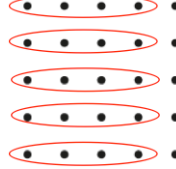
Answers will vary. Sample: Any number multiplied by one is the number itself. Any number multiplied by 10 is the number itself followed by a zero.

**6l**



4; 5; 20

Partner 2:



5; 4; 20

- 1 They are different.
- 2 The answers are the same.



## Answer Key

- 3 Answers will vary. Sample:  
Changing the order of the factors does not change the product.

### 6m

- |   |    |
|---|----|
| 1 | 5  |
| 2 | 60 |
| 3 | 9  |
| 4 | 40 |
| 5 | 30 |
| 6 | 1  |
| 7 | 70 |
| 8 | 2  |

### 6n

- |   |      |
|---|------|
| 1 | Even |
| 2 | Odd  |
| 3 | Odd  |
| 4 | Even |
| 5 | Even |
| 6 | Even |

### 6o

- |    |          |
|----|----------|
| 1  | 8; Even  |
| 2  | 7; Odd   |
| 3  | 12; Even |
| 4  | 3; Odd   |
| 5  | 10; Even |
| 6  | 5; Odd   |
| 7  | 11; Odd  |
| 8  | 16; Even |
| 9  | 13; Odd  |
| 10 | 15; Odd  |

### 6p

- |   |                 |
|---|-----------------|
| 1 | 6; 10; 60<br>60 |
| 2 | 5; 8; 40<br>40  |

## Chapter 7

### 7a

- $82 - 45 = 37$   
 $37 + 45 = 82$   
37

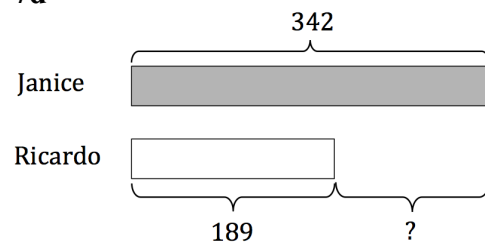
### 7b

- $1 + 1 + 1 = 3$   
 $11 - 3 = 8$   
8

### 7c

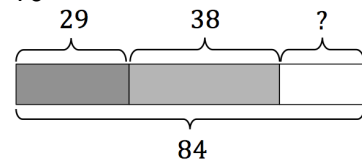
- |   |                          |
|---|--------------------------|
| 1 | $354 + 266 = 620$<br>620 |
| 2 | $620 + 280 = 900$<br>900 |

### 7d



- $342 - 189 = 153$   
153

### 7e

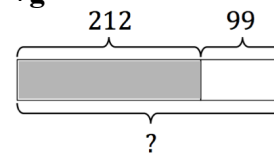


- $29 + 38 = 67$ ;  
 $84 - 17 = 67$  or  $84 - 67 = 17$   
17

### 7f

Answers will vary

### 7g



- $212 + 99 = 311$   
311

### 7h

- |   |   |
|---|---|
| 1 | $585$ ; $585 - 22 = 563$ or<br>$585 - 563 = 22$ |
| 2 | $945$ ; $945 - 35 = 910$ or<br>$945 - 910 = 35$ |
| 3 | $385$ ; $385 + 442 = 827$                       |
| 4 | $135$ ; $135 + 57 = 192$                        |

## Answer Key

7i

Answers will vary. Sample: It is important to practice my facts when solving word problems so that I can see numbers in different ways/add or subtract in an easier way.

## Chapter 8

8a

- 1 2 kg
- 2 3 kg
- 3 5 kg
- 4 Answers will vary. Sample: I divided each given mass by 2 to get the mass of each ball.

8b

- 1 6 kg
  - 2 12 kg
- Answers will vary

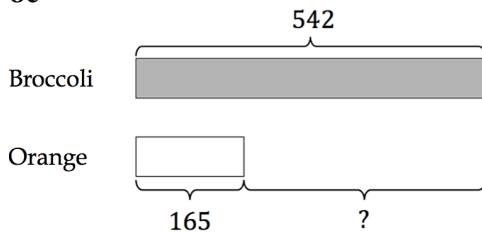
8c

- 1  $389 + 427 = 816$ ;  $816 - 389 = 427$  or  $816 - 427 = 389$
- 2  $427 - 389 = 38$ ;  $389 + 38 = 427$

8d

Answers will vary

8e



$$542 - 165 = 377$$

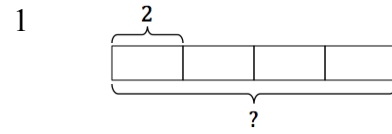
$$377$$

8f

Answers will vary

## Chapter 9

9a



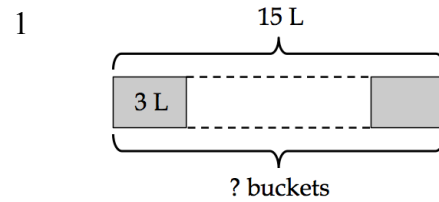
$$4 \times 2 = 8$$

2 2; 2; 2; 2; 8

3 4; 2; 8

8

9b



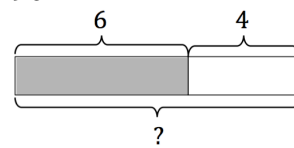
$$15 \div 3 = 5$$

2  $15 - 3 - 3 - 3 - 3 - 3 = 0$

3  $15 \div 3 = 5$

3

9c

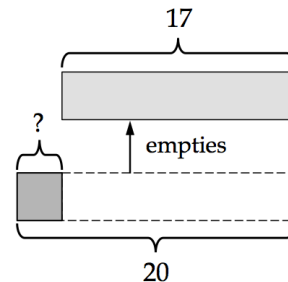


$$6 + 4 = 10 \text{ or } 4 + 6 = 10$$

10

Part-part-whole

9d



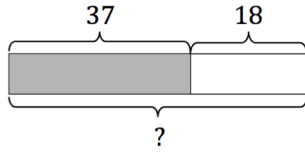
$$20 - 17 = 3$$

$$3 + 17 = 20$$

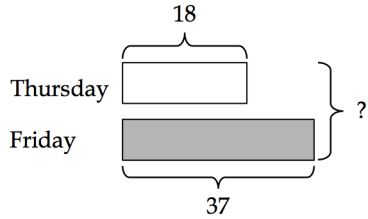
3

## Answer Key

9e



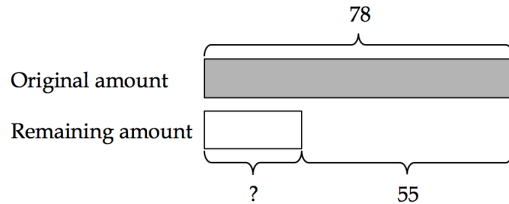
OR



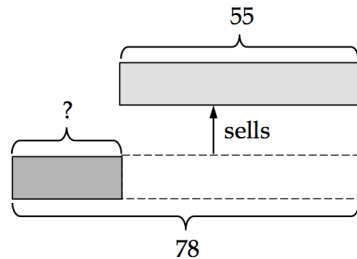
$$37 + 18 = 55 \text{ or } 18 + 37 = 55$$

55

9f



OR



$$78 - 55 = 23;$$

$$23 + 55 = 78$$

23

9g

1 2; 2; 2

2 3; 2; 1 (in any order)

3 4; 1; 1 (in any order)

4 3; 3

5 4; 2 (in any order)

## Chapter 10

10a

1 120

2 78

3 217

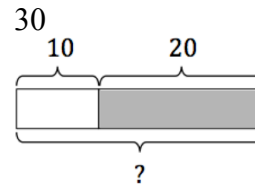
4 396

5 399

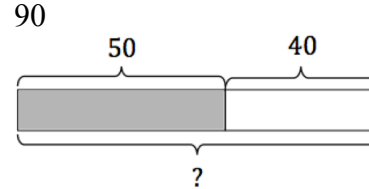
6 990

10b

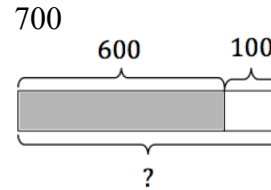
1



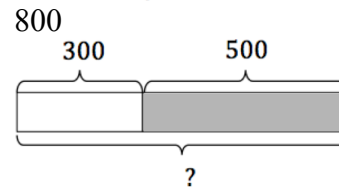
2



3



4



10c

1 10; 83

2; 81

81

2 10; 45

45; 1; 44

44

3 10; 98

98; 3; 95

95

Answers will vary. Sample: It is easier to add a ten because the tens place changes and then I can count back from the number to get the answer.

10d

1 361

2 276

3 443

4 833

5 928

6 552

7 671

8 166

9 245

10 894

## Answer Key

### 10e

- 1 100; 476  
20; 456  
456
- 2 100; 782  
10; 772  
772
- 3 447; 100; 547  
547; 30; 517  
517
- 4 526; 100; 626  
626; 10; 616  
616
- 5 392; 100; 492  
492; 20; 472  
472
- 6 263; 100; 363  
363; 30; 333  
333

### 10f

- 1 9; 459  
459
- 2 9; 699  
699
- 3 330; 8; 338  
338
- 4 510; 5; 515  
515
- 5 130; 8; 138  
138

### 10g

- 1 50; 755  
755
- 2 90; 396  
396
- 3 202; 80; 282  
282
- 4 609; 90; 699  
699
- 5 400; 90; 490  
490
- 6 501; 60; 561  
561

### 10h

- 1 25; 425  
425

- 2 68; 868  
868
- 3 400; 37; 437  
437
- 4 600; 81; 681  
681
- 5 900; 56; 956  
956

### 10i

- 1 78
- 2 60
- 3 200
- 4 56
- 5 571
- 6 60
- 7 648
- 8 10
- 9 300
- 10 50

### 10j

Answers will vary

## Chapter 11

### 11a

- 1 42
- 2 16
- 3 104
- 4 573
- 5 838
- 6 22
- 7 868
- 8 375
- 9 206
- 10 41

### 11b

- 1 57  
58  
58
- 2 10; 75  
75; 3; 78  
78
- 3 18
- 4 65
- 5 46
- 6 36

## Answer Key

7 25  
8 87  
9 54  
10 79

### 11c

1 979  
2 759  
3 839  
4 619  
5 526  
6 418  
7 325  
8 267  
9 158  
10 918

### 11d

1 100; 437  
477  
477  
2 100; 742  
742; 30; 772  
772  
3 100; 825  
825; 20; 845  
845  
4 336; 100; 236  
236; 40; 276  
276  
5 139  
6 395  
7 252  
8 183  
9 677  
10 789

### 11e

1 3; 5  
690; 5; 695  
695  
2 5; 1  
240; 1; 241  
241  
3 4; 5  
110; 5; 115  
115  
4 321  
5 884  
6 454

### 11f

1 30; 20  
903; 20; 923  
923  
2 20; 20  
806; 20; 826  
826  
3 50; 10  
601; 10; 611  
611  
4 512  
5 417  
6 718

### 11g

1 200; 100  
100; 193  
193  
2 300; 300  
300; 374  
374  
3 400; 300  
300; 312  
312  
4 755  
5 99  
6 348

### 11h

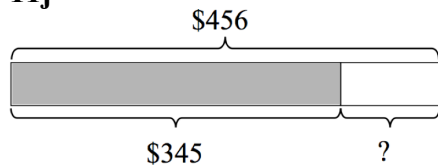
1 50  
2 30  
3 530  
4 60  
5 20  
6 370  
7 470  
8 80  
9 100  
10 100  
11 160  
12 260

### 11i

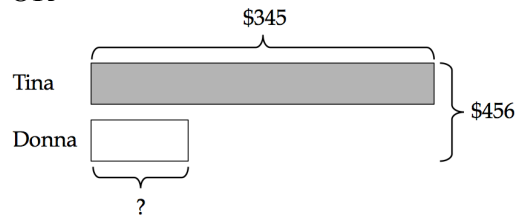
1 568  
350; 220; 570  
Yes. 568 rounds to 570.  
2 233  
230; 370; 600  
Yes. 233 rounds to 230.

## Answer Key

11j



OR



$$\$456 - \$345 = \$111$$

$$\$111 + \$345 = \$456$$

11k

Answers will vary

## Chapter 12

12a

1  $\frac{1}{3}$

2  $\frac{1}{2}$

3  $\frac{1}{4}$

4  $\frac{1}{3}$

Answers will vary

12b

$$\frac{1}{4} > \frac{1}{3}$$

Answers will vary. Sample: Compare the fractions. The smaller part is less.

12c

$$\frac{1}{2} > \frac{1}{4}$$

Answers will vary. Sample: Compare the fractions. The bigger part is more.

12d

$$\frac{1}{4} > \frac{1}{3} > \frac{1}{2}$$

Answers will vary. Sample: The models show the parts and the whole of the fraction, which makes it easier to compare.

12e

1  $\frac{2}{2}$  or 1

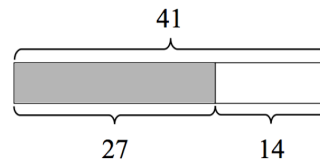
2  $\frac{2}{4}$  or  $\frac{1}{2}$

12f

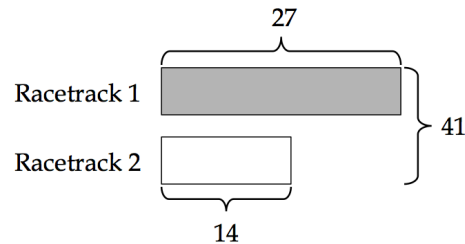
Answers will vary. Sample: Chess board, wagon wheel, window panes, etc.

## Chapter 13

13a



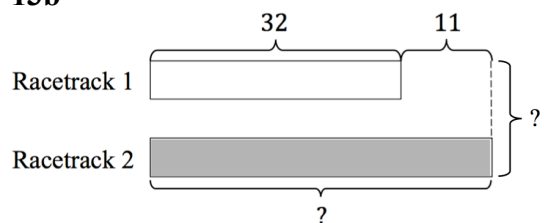
OR



$$27 + 14 = 41$$

41

13b



$$32 + 11 = 43$$

$$32 + 43 = 75$$

75

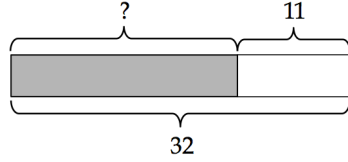
## Answer Key

**13c**

- 1 12
- 2 20

**13d**

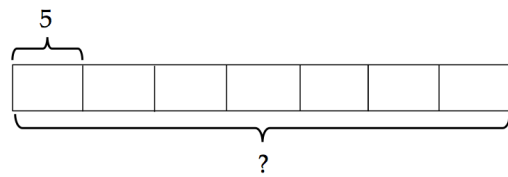
$$20 + 12 = 32$$



$$32 - 11 = 21$$

21

**13e**



$$7 \times 5 = 35$$

35

**13f**

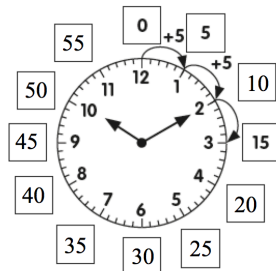
- 1 115 ft
- 2 680 ft
- 3 873 in
- 4 64 in
- 5 535 in
- 6 998 ft

**13g**

Answers will vary. Sample: It is good to know addition, subtraction, multiplication and division facts because they help us solve word problems quickly.

## Chapter 14

**14a**



How many minutes are there in 1 hour? 60

**14b**

Answers will vary. Sample: the numbers on the clock represent 5 when telling time in minutes. This is how skip-counting or multiplying by 5 helps with telling time.

**14c**

1



1:00

2



6:00

3



11:00

4



5:00

5



11:00

6



1:00

## Answer Key

### 14d

- 1 8:25
- 2 3:30
- 3 4:45
- 4 6:15
- 5 11:50
- 6 7:40

### 14e

1



2



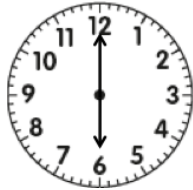
3



4



### 14f



6:00; 6

### 14g

Answers will vary

## Chapter 15

### 15a

- 1 5; 3  
15
- 2 4; 3  
12
- 3 3; 3  
9

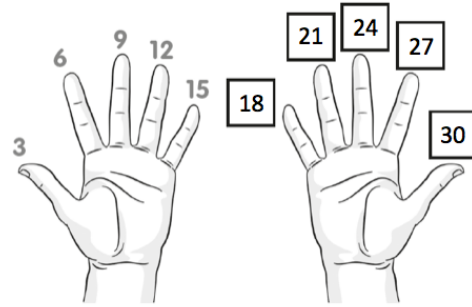
### 15b

- 1 Number line: 0, 3, 6, 9  
9  
9  
3; 9
- 2 Number line: 0, 3, 6, 9, 12, 15,  
18, 21, 24, 27  
9; 12; 15; 18; 21; 24; 27  
3; 27  
9; 3; 27
- 3 18; 6; 3; 18
- 4 21; 7; 3; 21
- 5 24; 8; 3; 24
- 6 15; 5; 3; 15

### 15c

- 1 12; 12
- 2 15; 15

### 15d



$$5 \times 3 = 15$$

- 1 18
- 2 12
- 3 21
- 4 6
- 5 30
- 6 27
- 7 15
- 8 3
- 9 9

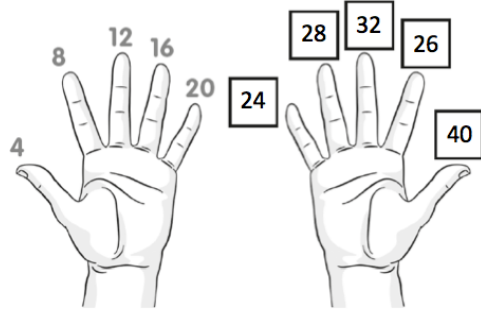


## Answer Key

### 15e

- 1 15
- 2 3
- 3 12
- 4 9
- 5 15
- 6 6
- 7 9
- 8 0

### 15f



- $5 \times 4 = 20$
- 1 4
  - 2 12
  - 3 32
  - 4 36
  - 5 24
  - 6 28
  - 7 32
  - 8 40

### 15g

- 1 20
- 2 4
- 3 12
- 4 0
- 5 16
- 6 8
- 7 4
- 8 8

### 15h

- 1 8
  - 
  - 
  - 
  - 
  -
- 2 8
  - 
  - 
  - 
  - 
  -

- 3 6
  - 
  - 
  - 
  - 
  -

- 4 6
  - 
  - 
  - 
  - 
  -

### 15i

- 1 9
  - 
  - 
  -

- 2 4
  - 
  - 
  -

- 3 16
  - 
  - 
  - 
  - 
  -

- 4 20
  - 
  - 
  - 
  - 
  -

### 15j

- 1 9; 9; 3; 3
- 2 16; 16; 4; 4
- 3 8; 8; 4; 2 or 8; 2; 4
- 4 6; 6; 2; 3 or 6; 3; 2

### 15k

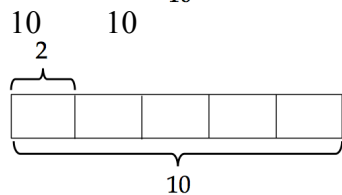
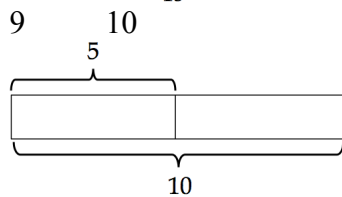
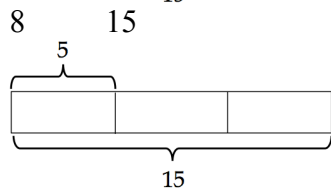
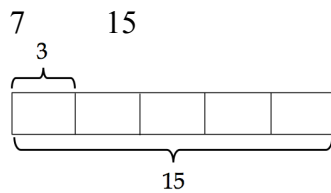
- 1 Answers will vary
  - 2 Answers will vary
- Answers will vary. Sample: Related facts help me solve multiplication and division problems because the groups are the same. For example, I know that  $3 \times 4 = 12$ . So,  $12 \div 4 = 3$ .
- The student should have a drawing that shows equal grouping and which matches their number sentences.

# Answer Key

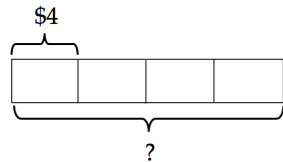
## Chapter 16

### 16a

1–6



### 16b



$$\$4 \times 4 = \$16$$

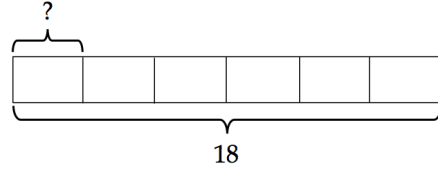
16

$$16 \div 4 = 4$$

### 16c

- 1 36; 9; 4
- 2 24; 6; 4
- 3 27; 9; 3
- 4 18; 6; 3

### 16d



$$18 \div 6 = 3$$

3

$$6 \times 3 = 18 \text{ or } 3 \times 6 = 18$$

### 16e

- 1 20
- 2 6
- 3 15
- 4 20
- 5 12
- 6 5
- 7 3
- 8 4
- 9 4
- 10 4

### 16f

Answers will vary

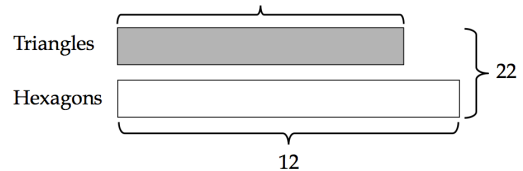
## Chapter 17

### 17a

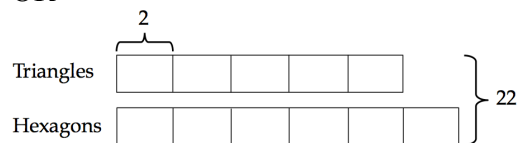
- 1 12
- 2 10
- 3 14
- 4 18
- 5 18

### 17b

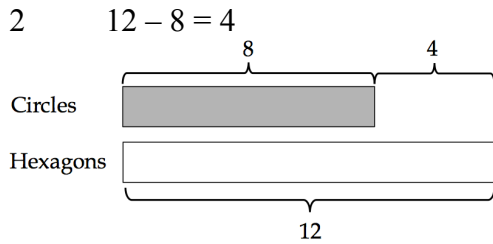
1 22  
 $10 + 12 = 22$



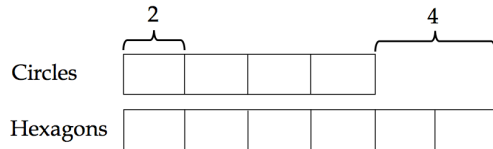
OR



## Answer Key



OR



### 17c

- 1      55  
 $5 + 6 = 11$   
 $11 \times 5 = 55$
- 2      10  
 $5 + 3 = 8$   
 $8 - 6 = 2$   
 $2 \times 5 = 10$
- 3      15  
 $6 - 3 = 3$   
 $3 \times 5 = 15$

### 17d

- 1      18  
 $6 \times 3 = 18$
- 2      6  
 $7 \times 3 = 21; 5 \times 3 = 15;$   
 $21 - 15 = 6$  OR  
 $7 - 5 = 2; 2 \times 3 = 6$
- 3      33  
 $6 \times 3 = 18; 5 \times 3 = 15;$   
 $18 + 15 = 33$  OR  
 $6 + 5 = 11; 11 \times 3 = 33$

### 17e

- 1      4  
 2      9  
 3      0  
 4      30  
 5      32  
 6      9  
 7      8  
 8      1  
 9      6  
 10     7  
 11     0  
 12     6

### 17f

Answers will vary

## Chapter 18

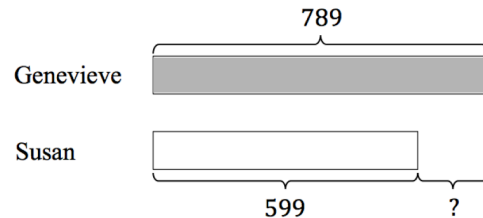
### 18a

- 1      4; 4; 16  
 2      3; 6; 18  
 3      3; 0; 0  
 4      2; 5; 10  
 5      6; 4; 24  
 6      5; 3; 15

### 18b

- 1      3; 3;  $9 + 3$ ; 4; 12  
          9; 12; 21  
          21
- 2      1; 0;  $0 + 5$ ; 4; 20  
          0; 20; 20  
          20
- 3      2; 6;  $12 + 2$ ; 3; 6  
          12; 6; 18  
          18

### 18c



$$789 - 599 = 190$$

190

### 18d

Answers will vary

## Chapter 19

### 19a

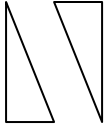
- 1      6; 6  
 2      6; 60  
 3      6; 24  
 4      6; 5; 30  
 5      6; 3; 18  
 6      6; 2; 12

## Answer Key

### 19b

- 1 5; 5
- 2 5; 50
- 3 5; 4; 20
- 4 5; 5; 25
- 5 5; 3; 15
- 6 5; 2; 10

### 19c



$$6 \times 3 = 18$$

### 19d

- 1 No
- 2  $6 \times 5 = 30$   
 $30 \div 6 = 5$

### 19e

- 1
 

OR

325  
 $325 + 567 = 892$   
892
- 2
 

47  
erases

892  
 $892 - 47 = 845$   
845

### 19f

- 1 6  
3; 2

- 2 3; 2  
6; 3  
24  
3; 8; 24  
24; 3  
24; 8  
3 42  
6; 7; 42  
42; 6  
42; 7; 6  
4 36  
4; 9; 36  
36; 9; 4  
36; 4; 9

### 19g

Answers will vary

### 19h

Answers will vary

## Diagnostic Assessment

- 1 2
- 2 5
- 3 3
- 4 9
- 5 2
- 6 9
- 7 5
- 8 5
- 9 10
- 10 4
- 11 0
- 12 9
- 13 10
- 14 9
- 15 6
- 16 8
- 17 6
- 18 4
- 19 10
- 20 5
- 21 10
- 22 7
- 23 4
- 24 3
- 25 6

## Answer Key

### In a Minute I Can Do! Repeated Practice 1

1	6
2	4
3	7
4	5
5	9
6	7
7	9
8	10
9	10
10	8
11	1
12	7
13	5
14	1
15	6
16	4
17	2
18	9
19	8
20	3

### In a Minute I Can Do! Repeated Practice 3

1	7
2	9
3	4
4	8
5	3
6	3
7	0
8	6
9	2
10	10
11	4
12	3
13	6
14	9
15	4
16	1
17	9
18	8
19	1
20	5

### In a Minute I Can Do! Repeated Practice 2

1	7
2	4
3	3
4	3
5	7
6	1
7	2
8	5
9	3
10	4
11	2
12	5
13	3
14	2
15	1
16	4
17	5
18	1
19	5
20	2

### In a Minute I Can Do! Repeated Practice 4

1	4
2	12
3	10
4	20
5	14
6	6
7	8
8	18
9	2
10	16
11	6
12	3
13	4
14	9
15	1
16	8
17	5
18	10
19	7
20	2

## Answer Key

### In a Minute I Can Do! Repeated Practice 5

1	9
2	5
3	3
4	11
5	15
6	17
7	7
8	12
9	14
10	6
11	16
12	8
13	10
14	7
15	15
16	11
17	3
18	17
19	14
20	12

### In a Minute I Can Do! Repeated Practice 6

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

### In a Minute I Can Do! Repeated Practice 7

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

10	8
11	6
12	8
13	7
14	9
15	5

### In a Minute I Can Do! Repeated Practice 8

1	4
2	10
3	12
4	14
5	5
6	15
7	20
8	2
9	16
10	20
11	50
12	40
13	25
14	35
15	18
16	30
17	8
18	10
19	5
20	45

### In a Minute I Can Do! Repeated Practice 9

1	3
2	2
3	6
4	7
5	3
6	10
7	5
8	8
9	6
10	9
11	9
12	7
13	4
14	4
15	5
16	2

## Answer Key

17 10  
18 8  
19 2  
20 4

### In a Minute I Can Do! Repeated Practice 10

1 5  
2 35  
3 8  
4 10  
5 5  
6 2  
7 3  
8 25  
9 10  
10 4  
11 30  
12 40  
13 6  
14 7  
15 8  
16 9  
17 9  
18 12  
19 7  
20 10

### In a Minute I Can Do! Repeated Practice 11

1 57  
2 84  
3 89  
4 78  
5 46  
6 59  
7 47  
8 83  
9 29  
10 35

### In a Minute I Can Do! Repeated Practice 12

1 74  
2 22  
3 41  
4 11

5 34  
6 33  
7 23  
8 60  
9 82  
10 11

### In a Minute I Can Do! Repeated Practice 13

1 30  
2 55  
3 40  
4 10  
5 10  
6 95  
7 77  
8 72  
9 60  
10 13

### In a Minute I Can Do! Repeated Practice 14

1 40  
2 72  
3 90  
4 95  
5 93  
6 66  
7 56  
8 62  
9 78  
10 84

### In a Minute I Can Do! Repeated Practice 15

1 17  
2 9  
3 28  
4 18  
5 49  
6 17  
7 9  
8 12  
9 4  
10 29

## Answer Key

### In a Minute I Can Do! Repeated Practice 16

1	59
2	81
3	9
4	90
5	17
6	92
7	6
8	56
9	63
10	72

### In a Minute I Can Do! Repeated Practice 17

1	15
2	8
3	6
4	20
5	28
6	24
7	32
8	18
9	21
10	12
11	36
12	3
13	4
14	9
15	27
16	16
17	24
18	20
19	30
20	40

### In a Minute I Can Do! Repeated Practice 18

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

10	2
11	2
12	1
13	7
14	6
15	1
16	4
17	3
18	4
19	6
20	5

### In a Minute I Can Do! Repeated Practice 19

1	20
2	4
3	9
4	40
5	9
6	32
7	3
8	21
9	24
10	28
11	8
12	6
13	10
14	27
15	6
16	15
17	24
18	0
19	10
20	4