



Answer Key

GRADE 1 • MODULE 4

Place Value, Comparison, Addition and Subtraction to 40

Lesson 1

Fluency Practice

Answers will vary.

Problem Set

1. Groups of 10 circled; 30
2. Groups of 10 circled; 24
3. Groups of 10 circled; 29
4. Groups of 10 circled; 34
5. Groups of 10 circled; 31
6. Groups of 10 circled; 26
7. Groups of 10 circled; 38
8. Groups of 10 circled; 33
9. Number bond shows that 20 and 7 is 27.
10. Number bond shows that 30 and 3 is 33.
11. Number bond shows that 20 and 9 is 29.
12. Number bond shows that 40 and 0 is 40.
13. Groups of 10 circled; 20 and 2 is 22
14. Groups of 10 circled; 30 and 7 is 37
15. Groups of 10 circled; 20 and 10 is 30
16. Groups of 10 circled; 30 and 9 is 39

Exit Ticket

1. Number bond shows that 20 and 8 is 28.
2. Number bond shows that 30 and 2 is 32.
3. Number bond shows that 40 and 0 is 40.
4. Number bond shows that 30 and 6 is 36.

Homework

1. Groups of 10 circled; 26
2. Groups of 10 circled; 38
3. Groups of 10 circled; 25
4. Groups of 10 circled; 39
5. Groups of 10 circled; 20 and 7 is 27; 27
6. Groups of 10 circled; 10 and 10 is 20; 20
7. Groups of 10 circled; 20 and 4 is 24; 24
8. Groups of 10 circled; 30 and 6 is 36; 36
9. Groups of 10 circled; 10 and 7 is 17; 17
10. Groups of 10 circled; 20 and 3 is 23; 23
11. Picture of 10 and 8 drawn; 8
12. Picture of 10 more and 3 more drawn; 33

Lesson 2

Practice Sheet

- | | | |
|-------|--------|--------|
| 1. 2 | 16. 7 | 31. 8 |
| 2. 3 | 17. 7 | 32. 8 |
| 3. 4 | 18. 8 | 33. 7 |
| 4. 4 | 19. 7 | 34. 6 |
| 5. 4 | 20. 7 | 35. 8 |
| 6. 3 | 21. 5 | 36. 9 |
| 7. 0 | 22. 6 | 37. 10 |
| 8. 4 | 23. 6 | 38. 9 |
| 9. 4 | 24. 5 | 39. 10 |
| 10. 5 | 25. 10 | 40. 7 |
| 11. 6 | 26. 10 | 41. 10 |
| 12. 6 | 27. 9 | 42. 9 |
| 13. 8 | 28. 10 | 43. 8 |
| 14. 8 | 29. 9 | 44. 9 |
| 15. 9 | 30. 10 | 45. 10 |

Problem Set

- | | |
|--------------|--------------|
| 1. 1, 7 | 10. 2, 7; 27 |
| 2. 2, 6 | 11. 3, 9; 39 |
| 3. 2, 8 | 12. 2, 9; 29 |
| 4. 3, 3 | 13. 3, 5 |
| 5. 1, 4; 14 | 14. 27 |
| 6. 2, 8; 28 | 15. 39 |
| 7. 2, 5; 25 | 16. 2, 9 |
| 8. 3, 10; 40 | 17. 4 |
| 9. 3, 5; 35 | 18. 0, 9 |

Exit Ticket

Cubes matched to 2nd place value chart

Crayons matched to 3rd place value chart

Flowers matched to 1st place value chart

Homework

1. 3, 4; 34
2. 2, 3; 23
3. 3, 6; 36
4. 2, 9; 29
5. 1, 9; 19
6. 2, 6; 26
7. 2, 4; 24
8. 3, 6; 36
9. 3, 9; 39
10. 2, 8; 28
11. 2, 3
12. 32
13. 9
14. 40
15. Answers will vary.

Lesson 3

Problem Set

- 1, 2, 12
- 2, 6, 26
- 3, 7, 37
- 3, 4, 34
- 4, 0, 40
- 1, 10, 20
- 32 ones
- 17 ones
- Picture of 3 tens and 7 ones
- 40 ones
- 23 ones
- 29 ones
- 1, 5; 15
- 39; 3, 9

Exit Ticket

- 2, 4, 24
- 3, 8, 38
- 2, 7; 27

Homework

- 2, 3, 23
- 3, 6, 36
- 1, 0, 10
- 3, 8, 38
- 29; 29
- 3, 4; 34
- 38; 38
- 39; 39
- 40; 0, 4
- Answers will vary.

Lesson 4

Problem Set

- 23; 23; 23
- 20, 8, 28; 28; 28
- 20, 7; 27; 27; 27
- 30, 6; 36; 36; 36
- 20, 5; 25; 25; 25
- 30, 8; 38; 38; 38
- 14
- 2, 3; 20, 23
- 3, 8; 38, 8
- 2, 9; 29, 9
- 40
- $20 + 7$
- $20 + 3$
- $9 + 30$
- $30 + 2$

Exit Ticket

- 1, 3; 3, 13
- 3, 4; 30, 34
- 3, 5; 35, 5
- 2, 6; 26, 20

Homework

- 20, 3, 23; 23; 23
- 20, 4, 24; 24; 24
- 2, 7; 27
- 3, 5; 5, 35
- 2, 4; 4, 24
- 3, 8; 30, 8, 38
- 2 more than 10 is 12.
- 1 and 30 make 31.
- $20 + 4 = 24$
- $8 + 30 = 38$

Lesson 5

Sprint

Side A

- | | | |
|-------|--------|--------|
| 1. 13 | 11. 0 | 21. 10 |
| 2. 12 | 12. 3 | 22. 10 |
| 3. 11 | 13. 4 | 23. 10 |
| 4. 11 | 14. 5 | 24. 18 |
| 5. 14 | 15. 8 | 25. 19 |
| 6. 16 | 16. 1 | 26. 12 |
| 7. 17 | 17. 2 | 27. 14 |
| 8. 18 | 18. 10 | 28. 15 |
| 9. 2 | 19. 10 | 29. 10 |
| 10. 1 | 20. 7 | 30. 3 |

Side B

- | | | |
|-------|--------|--------|
| 1. 11 | 11. 2 | 21. 10 |
| 2. 12 | 12. 3 | 22. 10 |
| 3. 13 | 13. 5 | 23. 10 |
| 4. 14 | 14. 7 | 24. 16 |
| 5. 15 | 15. 9 | 25. 18 |
| 6. 16 | 16. 0 | 26. 13 |
| 7. 18 | 17. 1 | 27. 15 |
| 8. 18 | 18. 10 | 28. 15 |
| 9. 0 | 19. 10 | 29. 10 |
| 10. 1 | 20. 3 | 30. 3 |

Problem Set

- 31
- 29
- 40
- 38
- 37
- 23
- 1 more drawn; 29
- 10 more or quick 10 drawn; 38
- 1 more drawn; 30
- 10 more or quick 10 drawn; 39
- 10 crossed off; 16
- 1 crossed off; 25
- 10 crossed off; 30
- 1 crossed off; 39

Exit Ticket

- 1 more drawn; 25
- 10 more or quick 10 drawn; 34
- 10 crossed off; 20
- 1 crossed off; 29

Homework

- 3 quick tens and 9 ones drawn; 39
- 4 quick tens and 8 ones drawn; 48
- 3 quick tens and 6 ones drawn; 36
- 4 quick tens and 5 ones drawn; 45
- 23 drawn, 10 crossed off; 13
- 23 drawn, 1 crossed off; 22
- 31 drawn, 10 crossed off; 21
- 31 drawn, 1 crossed off; 30
- 10 more than 20
- 1 more than 23 is 24
- 1 less than 30
- 10 less than 36

Lesson 6

Problem Set

- 2, 0; 2
- 1, 4; 1, 4
- 3, 5; 35
- 2, 6; 26
- 0, 6; 6, 0, 6
- 2, 5; 25, 2, 5
- 3, 0; 30, 3, 0
- 3, 4; 3, 4, 34
- 16; 1 more drawn
- 15; 10 more drawn
- 40; 1 dime drawn
- 31; 1 penny drawn
- 23; 1 penny crossed off
- 14; 1 dime crossed off
- 11; 1 dime crossed off
- 20; 1 penny crossed off

Exit Ticket

- 33; 10 more drawn
- 14; 1 more drawn
- 21; 1 dime crossed off
- 13; 1 penny crossed off

Homework

- 3, 0; 3
- 1, 7; 1, 7
- 2, 2; 22
- 3, 3; 33
- 0, 8; 8, 0, 8
- 3, 6; 36, 3, 6
- 1, 6; 16, 1, 6
- 2, 4; 2, 4, 24
- 13; 1 more drawn
- 13; 10 more drawn
- 32; 1 more dime drawn
- 23; 1 more penny drawn
- 38; 1 penny crossed off
- 29; 1 dime crossed off
- 23; 1 dime crossed off
- 32; 1 penny crossed off

Lesson 7

Sprint

Side A

- | | | |
|--------|--------|--------|
| 1. 6 | 11. 28 | 21. 39 |
| 2. 16 | 12. 18 | 22. 29 |
| 3. 26 | 13. 8 | 23. 19 |
| 4. 15 | 14. 19 | 24. 1 |
| 5. 25 | 15. 29 | 25. 10 |
| 6. 35 | 16. 39 | 26. 10 |
| 7. 7 | 17. 10 | 27. 1 |
| 8. 17 | 18. 20 | 28. 24 |
| 9. 27 | 19. 30 | 29. 24 |
| 10. 37 | 20. 40 | 30. 34 |

Side B

- | | | |
|--------|--------|--------|
| 1. 5 | 11. 27 | 21. 39 |
| 2. 15 | 12. 17 | 22. 29 |
| 3. 25 | 13. 7 | 23. 19 |
| 4. 16 | 14. 18 | 24. 1 |
| 5. 26 | 15. 28 | 25. 10 |
| 6. 36 | 16. 38 | 26. 10 |
| 7. 6 | 17. 10 | 27. 1 |
| 8. 16 | 18. 20 | 28. 29 |
| 9. 26 | 19. 30 | 29. 29 |
| 10. 36 | 20. 40 | 30. 39 |

Problem Set

- 13, 19; set of 19 circled
- 36, 13; set of 36 circled
- 30, 29; set of 30 circled
- 30, 32; set of 32 circled
- 3 tens 2 ones
 - 3 tens 2 ones
 - 19
 - 31
- Set of 3 dimes circled
- 13, 19; set of 13 circled
- 14, 11; set of 11 circled
- 11, 20; set of 11 circled
- 40, 26; set of 26 circled
- 1 ten 5 ones
 - 28 ones
 - 13
 - 26
- Set of 1 dime 2 pennies circled
- 17 circled; explanations will vary

Exit Ticket

- 34, 25; set of 34 circled; 34, 25
- 24, 34; set of 24 circled; 24, 34
- Set of 2 dimes circled
- Set of 1 dime and 4 pennies circled

Homework

- 22, 14; set of 22 circled
- 13, 23; set of 23 circled
- 3 tens 9 ones circled
- 35 circled
- 31, 24; set of 24 circled
- 28, 38; set of 28 circled
- 2 tens 7 ones circled
- 22 circled
- Set of 1 dime and 3 pennies circled
- Set of 2 dimes circled
- 24 circled; 24 is less than 27
 - 32 circled; 32 is greater than 22
 - 26 circled; 26 is less than 29
 - It would be a tie; drawings showing 39.

Lesson 8

Core Subtraction Fluency Review

- | | | |
|-------|-------|-------|
| 1. 8 | 16. 6 | 31. 0 |
| 2. 7 | 17. 7 | 32. 1 |
| 3. 0 | 18. 6 | 33. 2 |
| 4. 0 | 19. 8 | 34. 3 |
| 5. 1 | 20. 2 | 35. 4 |
| 6. 2 | 21. 3 | 36. 5 |
| 7. 3 | 22. 4 | 37. 4 |
| 8. 2 | 23. 0 | 38. 5 |
| 9. 7 | 24. 0 | 39. 3 |
| 10. 6 | 25. 1 | 40. 2 |
| 11. 5 | 26. 0 | 41. 4 |
| 12. 0 | 27. 1 | 42. 3 |
| 13. 1 | 28. 0 | 43. 2 |
| 14. 1 | 29. 1 | 44. 3 |
| 15. 5 | 30. 1 | 45. 2 |

Problem Set

- G; is greater than
 - L; is less than
 - G; is greater than
 - L; is less than
- is equal to; is less than; is greater than; is less than; is greater than; is greater than; is less than
- 9, 13, 23, 32, 40
- 40, 32, 23, 13, 9
- Answers will vary.

Exit Ticket

- 40, 39, 30, 29
- is less than; is equal to; is greater than

Homework

- is less than
 - is equal to
 - is greater than
 - is greater than
 - is less than
- 32, 29, 4 tens circled
- 29, 3 tens, 13 circled
- 23, 29, 30, 32; 27 goes between 23 and 29
- 40, 31, 30, 13; 23 goes between 13 and 30
- Answers will vary.

Lesson 9

Problem Set

- $>$
 - $<$
- $24 > 4$
 - $36 < 38$
 - $14 < 15$
 - $20 > 2$
 - $35 < 36$
 - $20 > 19$
 - $31 > 13$
 - $23 < 32$
 - $12 < 21$
- Alligator circled
 - Alligator redrawn
- Answers will vary.

Exit Ticket

- $12 > 10$
- $13 > 3$
- $21 > 12$
- $22 < 24$
- $28 > 27$
- $13 < 31$
- $25 > 17$
- $21 < 30$
- $23 < 32$

Homework

- $20 > 10$
 - $15 < 17$
 - $24 > 22$
 - $30 > 29$
 - $38 < 39$
 - $39 < 40$
- Answers will vary.
- is less than
 - is greater than
 - is greater than
 - is less than
 - is less than
 - is less than
 - is less than

Lesson 10

Sprint

Side A

- | | | |
|--------|--------|--------|
| 1. 3 | 11. 9 | 21. 36 |
| 2. 13 | 12. 10 | 22. 24 |
| 3. 23 | 13. 9 | 23. 19 |
| 4. 7 | 14. 18 | 24. 30 |
| 5. 17 | 15. 13 | 25. 15 |
| 6. 37 | 16. 14 | 26. 35 |
| 7. 30 | 17. 25 | 27. 6 |
| 8. 32 | 18. 26 | 28. 12 |
| 9. 35 | 19. 17 | 29. 6 |
| 10. 10 | 20. 9 | 30. 20 |

Side B

- | | | |
|--------|--------|--------|
| 1. 4 | 11. 8 | 21. 39 |
| 2. 14 | 12. 9 | 22. 21 |
| 3. 24 | 13. 8 | 23. 29 |
| 4. 7 | 14. 17 | 24. 20 |
| 5. 17 | 15. 15 | 25. 15 |
| 6. 27 | 16. 12 | 26. 35 |
| 7. 30 | 17. 23 | 27. 6 |
| 8. 33 | 18. 25 | 28. 10 |
| 9. 36 | 19. 14 | 29. 10 |
| 10. 10 | 20. 7 | 30. 22 |

Problem Set

1.
 - a. $>$
 - b. $>$
 - c. $<$
 - d. $<$
 - e. $>$
 - f. $>$
 - g. $>$
 - h. $>$
 - i. $<$
2.
 - a. is equal to; $36 = 36$
 - b. is less than; $14 < 17$
 - c. is less than; $24 < 34$
 - d. is equal to; $20 = 20$
 - e. is greater than; $31 > 13$
 - f. is less than; $12 < 21$
 - g. is greater than; $17 > 13$
 - h. is equal to; $30 = 30$

Exit Ticket

- a. is greater than; $29 > 26$
- b. is less than; $18 < 19$
- c. is less than; $29 < 40$
- d. is less than; $39 < 40$

Homework

- a. $>$; is greater than
- b. $<$; is less than
- c. $=$; is equal to
- d. $<$; is less than
- e. $>$; is greater than
- f. $>$; is greater than
- g. $>$; is greater than
- h. $=$; is equal to
- i. $>$; is greater than
- j. $<$; is less than
- k. $>$; is greater than
- l. $=$; is equal to
- m. $<$; is less than
- n. $<$; is less than
- o. $<$; is less than
- p. $>$; is greater than

Lesson 11

Problem Set

1. Answer provided.
2. 10, 10; 1, 1, 2; $10 + 10 = 20$
3. 20, 20, 40; 4, 2, 2; $40 = 20 + 20$
4. 10, 20, 30; 3, 2, 1; $30 = 20 + 10$
5. 10, 20, 30; 3, 1, 2; $30 - 10 = 20$
6. 10, 10, 20; 2, 2, 0; $20 - 20 = 0$
7. 10, 20, 30; 2, 1, 3; $20 + 10 = 30$
8. 10, 30, 40; 4, 1, 3; $40 - 10 = 30$
9. 10, 20, 30; 3, 2, 1; $30 - 20 = 10$
10. 0, 10, 10; 1, 0, 1; $10 - 0 = 10$
11. a. 2 tens; $20 + 20 = 40$
b. 10; $30 + 10 = 40$
c. 10; 2 tens + 1 ten = 3 tens
12. a. 40
b. 10
c. 30
d. 20
e. 30
f. Answers will vary.

Exit Ticket

1. 10, 10; 2; $10 + 10$
2. 10, 20, 30; 3, 2, 1; 30, 20, 10
3. 20, 10, 30; 3, 1, 2; 30, 10, 20
4. 20, 20, 40; 4, 2, 2; 40, 20, 20

Homework

1. Answer provided.
2. 10, 20, 30; 3, 1, 2; $30 = 10 + 20$
3. 10, 20, 30; 3, 1, 2; $30 - 10 = 20$
4. 20, 20, 40; 4, 2, 2; $40 - 20 = 20$
5. 0, 40, 40; 4, 4, 0; $40 - 40 = 0$
6. 20, 20, 40; 2, 2, 4; $20 + 20 = 40$
7. Quick tens drawn; 10, 20, 30; 30
8. Quick tens drawn; 10, 20, 30; 20
9. Quick tens drawn; 10, 10, 20; 10
10. Quick tens drawn; 10, 30, 40; 40
11. 3 tens
12. 40
13. 30
14. 30
15. 1 ten
16. 10
17. 0
18. 40
19. 10

Lesson 12

Sprint

Side A

- | | | |
|-------|-------|-------|
| 1. 1 | 11. 4 | 21. 3 |
| 2. 3 | 12. 2 | 22. 3 |
| 3. 3 | 13. 3 | 23. 5 |
| 4. 1 | 14. 3 | 24. 6 |
| 5. 2 | 15. 3 | 25. 3 |
| 6. 3 | 16. 4 | 26. 3 |
| 7. 3 | 17. 3 | 27. 6 |
| 8. 2 | 18. 3 | 28. 3 |
| 9. 2 | 19. 4 | 29. 3 |
| 10. 4 | 20. 5 | 30. 9 |

Side B

- | | | |
|-------|-------|--------|
| 1. 0 | 11. 5 | 21. 2 |
| 2. 4 | 12. 1 | 22. 2 |
| 3. 4 | 13. 4 | 23. 6 |
| 4. 0 | 14. 2 | 24. 7 |
| 5. 1 | 15. 2 | 25. 2 |
| 6. 4 | 16. 5 | 26. 2 |
| 7. 4 | 17. 2 | 27. 7 |
| 8. 1 | 18. 2 | 28. 3 |
| 9. 1 | 19. 5 | 29. 3 |
| 10. 5 | 20. 6 | 30. 11 |

Problem Set

- | | |
|--|----------------------|
| 1. 32 | 7. 23 |
| 2. 10, 25; 10, 15, 25 | 8. 20 |
| 3. 18, 20, 38; 18, 20, 38 | 9. 16 |
| 4. 29, 10, 39; 10, 29, 39 | 10. 18 |
| 5. Quick tens and ones drawn; 10, 19, 29; 2, 9; 29 | 11. 2, 3; 1, 0; 3, 3 |
| 6. Quick tens and ones drawn; 14, 20, 34; 3, 4; 34 | 12. 1, 6; 2, 0; 3, 6 |

Exit Ticket

38; quick tens, the arrow way, or coins drawn

34; quick tens, the arrow way, or coins drawn

Homework

- | | |
|--|----------------------|
| 1. 33; 13, 20, 33 | 7. 29 |
| 2. 20, 37; 17, 20, 37 | 8. 39 |
| 3. 10, 28, 38; 10, 28, 38 | 9. 28 |
| 4. 30, 19, 49; 19, 30, 49 | 10. 11 |
| 5. Quick tens/ones drawn; 10, 17, 27; 10, 17, 27 | 11. 1, 8; 2, 0; 3, 8 |
| 6. Quick tens/ones drawn; 19, 20, 39; 19, 20 | |

Lesson 13

Problem Set

- 2, 8; 28
- 3, 0; 27; 30
- 1, 8; 6; 18
- 2, 0; 16, 4, 20
- Quick ten drawing; 3, 0; 30
- Quick ten drawing; 2, 7; 27
- 20, 1; 30; 3, 0; quick ten drawing
- 20, 1; 28; 2, 8; quick ten drawing
- 10, 3; 20; 2, 0; quick ten drawing
- 20, 6; 30; 3, 0; quick ten drawing
- 30, 2; 35; 3, 5; quick ten drawing
- 30, 8; 40; 4, 0; quick ten drawing

Exit Ticket

- 3, 5; 32, 3, 35
- 3, 0; 26, 4, 30
- 30, 3; 39; 3, 9; quick ten drawing
- 20, 3; 30; 3, 0; quick ten drawing

Homework

- 2, 5; 25
- Quick ten drawing; 2, 9; 29
- Quick ten drawing; 2, 9; 29
- Quick ten drawing; 3, 0; 30
- Quick ten drawing; 3, 6; 36
- Quick ten drawing; 4, 0; 40
- 20, 6; 28; 2, 8; quick ten drawing
- 30, 6; 39; 3, 9; quick ten drawing
- 20, 6; 30; 3, 0; quick ten drawing
- 20, 4; 30; 3, 0; quick ten drawing
- a. 29
b. 30
c. 40

Lesson 14

Problem Set

- 19; 1, 9
- 20; 2, 0
- 23; 2, 3
- 30; 3, 0; quick ten drawing
- 32; 3, 2; quick ten drawing
- 35; 3, 5; quick ten drawing
- 20; 2, 0; quick ten drawing
- 22; 2, 2; quick ten drawing
- 32; 3, 2; quick ten drawing
- 10, 7; 19; 1, 9; work shown may vary
- 3, 2; 22; 2, 2; work shown may vary
- 20, 5; 29; 2, 9; work shown may vary
- 5, 1; 31; 3, 1; work shown may vary
- 30, 4; 38; 3, 8; work shown may vary
- 42; 4, 2; work shown may vary

Exit Ticket

- Quick ten drawing; 18; 1, 8
- Quick ten drawing; 20; 2, 0
- Quick ten drawing; 23; 2, 3
- 30, 2; 39; 3, 9
- 20, 6; 35; 3, 5

Homework

- 18; 1, 8
- 20; 2, 0
- 21; 2, 1
- 30; 3, 0; quick ten drawing
- 32; 3, 2; quick ten drawing
- 35; 3, 5; quick ten drawing
- 20; 2, 0; quick ten drawing
- 24; 2, 4; quick ten drawing
- 34; 3, 4; quick ten drawing
- 10, 3; 19; 1, 9; work shown may vary
- 10, 3; 20; 2, 0; work shown may vary
- 20, 5; 30; 3, 0; work shown may vary
- 20, 5; 33; 3, 3; work shown may vary
- 20, 4; 32; 3, 2; work shown may vary
- 20, 3; 32; 3, 2; work shown may vary

Lesson 15

Problem Set

- 8
- 18
- 28
- 38
- 12
- 22
- 32
- | | |
|-------|-------|
| a. 8 | h. 40 |
| b. 18 | i. 11 |
| c. 28 | j. 21 |
| d. 38 | k. 31 |
| e. 10 | l. 14 |
| f. 20 | m. 24 |
| g. 30 | n. 34 |
- 29; $3 + 6 = 9$
- 33; $7 + 6 = 13$

Exit Ticket

- | | |
|-------|----------|
| a. 12 | 3. a. 13 |
| b. 22 | b. 23 |
| c. 32 | c. 33 |
- | |
|-------|
| a. 8 |
| b. 18 |
| c. 28 |
| d. 38 |

Homework

1. 9
2. 19
3. 29
4. 39
5. 12
6. 22
7. 32
8.
 - a. 7
 - b. 17
 - c. 27
 - d. 37
9.
 - a. 10
 - b. 20
 - c. 30
 - d. 40
10.
 - a. 9
 - b. 19
 - c. 29
11.
 - a. 11
 - b. 21
 - c. 31
12.
 - a. 15
 - b. 25
 - c. 35
13.
 - a. 12
 - b. 22
 - c. 32
14. $29; 4 + 5 = 9$
15. $31; 4 + 7 = 11$

Lesson 16

Problem Set

1. Quick ten drawing; 19
2. Quick ten drawing; 20
3. Quick ten drawing; 38
4. Quick ten drawing; 39
5. Quick ten drawing; 17
6. Quick ten drawing; 36
7. Quick ten drawing; 30
8. Quick ten drawing; 20
9. Written notation; 39
10. Written notation; 33
11. Written notation; 40
12. Written notation; 40
13. Written notation; 38
14. Written notation; 34
15. Drawing of dimes and pennies; 36; 29

Exit Ticket

1. Quick ten drawing; 29
2. Quick ten drawing; 34
3. 10, 9; 39
4. 30, 6; 39
5. Drawing of 3 dimes and 3 pennies; 33

Homework

1. Quick ten drawing; 19
2. Quick ten drawing; 20
3. Quick ten drawing; 17
4. Quick ten drawing; 34
5. Written notation; 30
6. Written notation; 34
7.
 - a. 23; 2 dimes and 3 pennies
 - b. 19; $13 + 6$
 - c. 29; $26 \xrightarrow{+3} 29$
 - d. 40; quick ten drawing
 - e. 32; 3 dimes and 2 pennies

Lesson 17

Core Addition Fluency

- | | | |
|-------|-------|-------|
| 1. 0 | 16. 1 | 31. 0 |
| 2. 1 | 17. 6 | 32. 9 |
| 3. 3 | 18. 7 | 33. 8 |
| 4. 2 | 19. 0 | 34. 7 |
| 5. 5 | 20. 4 | 35. 2 |
| 6. 4 | 21. 3 | 36. 3 |
| 7. 5 | 22. 4 | 37. 4 |
| 8. 6 | 23. 3 | 38. 6 |
| 9. 0 | 24. 2 | 39. 5 |
| 10. 1 | 25. 6 | 40. 6 |
| 11. 3 | 26. 5 | 41. 5 |
| 12. 2 | 27. 8 | 42. 4 |
| 13. 4 | 28. 0 | 43. 7 |
| 14. 5 | 29. 1 | 44. 9 |
| 15. 2 | 30. 7 | 45. 8 |

Problem Set

- | | |
|--|---|
| 1. 26; quick ten or number bond drawings | 9. 36; quick ten or number bond drawings |
| 2. 35; quick ten or number bond drawings | 10. 30; quick ten or number bond drawings |
| 3. 19; quick ten or number bond drawings | 11. a. 30 |
| 4. 35; quick ten or number bond drawings | b. 32 |
| 5. 23; quick ten or number bond drawings | c. 39 |
| 6. 33; quick ten or number bond drawings | d. 38 |
| 7. 30; quick ten or number bond drawings | e. 32 |
| 8. 40; quick ten or number bond drawings | f. 36 |

Exit Ticket

1. 25; quick ten or number bond drawings
2. 35; quick ten or number bond drawings
3. 34; quick ten or number bond drawings
4. 39; quick ten or number bond drawings

Homework

1. 33; quick ten or number bond drawings
2. 29; quick ten or number bond drawings
3. 33; quick ten or number bond drawings
4. 34; quick ten or number bond drawings
5. 33; quick ten or number bond drawings
6. 37; quick ten or number bond drawings
7. Answers will vary.
8. 32; quick ten or number bond drawings
9. 34; quick ten or number bond drawings
10. 34; quick ten or number bond drawings
11. 38; quick ten or number bond drawings
12. 37; quick ten or number bond drawings
13. 38; quick ten or number bond drawings
14. Answers will vary.

Lesson 18

Problem Set

- +7, +1 added over arrows
 - 7, 1 added to number bond
 - X to the right of the drawing
- Circled
 - Circled
 - Not circled
 - +3 changed to +4, +2 changed to +1; 22
 - changed to 21
- Not circled
 - Circled
 - Circled
 - Quick tens added together; 15 changed to
 - 33
- 22; varied notation

Exit Ticket

- Circled
 - Not circled
 - Circled
 - Circle 10 dots

Homework

- Yes, both are correct. Explanations will vary.
- No, the first solution added 11 dots instead of 9.
- Students B and Student C worked the problem correctly. Quick ten drawing is made for $19 + 6$.

Lesson 19

Sprint

Side A

- | | | |
|-------|--------|--------|
| 1. 7 | 11. 18 | 21. 10 |
| 2. 17 | 12. 28 | 22. 20 |
| 3. 27 | 13. 9 | 23. 30 |
| 4. 7 | 14. 19 | 24. 11 |
| 5. 17 | 15. 29 | 25. 21 |
| 6. 27 | 16. 9 | 26. 31 |
| 7. 8 | 17. 19 | 27. 13 |
| 8. 18 | 18. 29 | 28. 23 |
| 9. 28 | 19. 9 | 29. 5 |
| 10. 8 | 20. 19 | 30. 8 |

Side B

- | | | |
|-------|--------|--------|
| 1. 6 | 11. 18 | 21. 10 |
| 2. 16 | 12. 28 | 22. 20 |
| 3. 26 | 13. 7 | 23. 30 |
| 4. 6 | 14. 17 | 24. 11 |
| 5. 16 | 15. 27 | 25. 21 |
| 6. 26 | 16. 9 | 26. 31 |
| 7. 8 | 17. 19 | 27. 14 |
| 8. 18 | 18. 29 | 28. 24 |
| 9. 28 | 19. 8 | 29. 5 |
| 10. 8 | 20. 18 | 30. 9 |

Problem Set

1. 13 ; $6 + 7 = 13$; labeled tape diagram
2. 12 ; $6 + 6 = 12$; labeled tape diagram
3. 15 ; $12 + 3 = 15$; labeled tape diagram
4. 17 ; $13 + 4 = 17$; labeled tape diagram
5. 18 ; $6 + 12 = 18$; labeled tape diagram
6. 20 ; $13 + 7 = 20$; labeled tape diagram

Exit Ticket

1. 20 ; $14 + 6 = 20$; labeled tape diagram

Homework

1. 17 ; $4 + 13 = 17$; labeled tape diagram
2. 20 ; $14 + 6 = 20$; labeled tape diagram
3. 13 ; $7 + 6 = 13$; labeled tape diagram
4. 18 ; $13 + 5 = 18$; labeled tape diagram

Lesson 20

Problem Set

- 2; $9 + \underline{2} = 11$ or $11 - 9 = \underline{2}$; labeled tape diagram
- 8; $8 + \underline{8} = 16$ or $16 - 8 = \underline{8}$; labeled tape diagram
- 16; $13 + 3 = \underline{16}$; labeled tape diagram
- 10; $3 + \underline{10} = 13$ or $13 - 3 = \underline{10}$; labeled tape diagram
- 12; $6 + 6 = \underline{12}$; labeled tape diagram
- 4; $14 + \underline{4} = 18$ or $18 - 14 = \underline{4}$; labeled tape diagram

Exit Ticket

6; $6 + \underline{6} = 12$ or $12 - 6 = \underline{6}$; labeled tape diagram

Homework

- 6; $6 + \underline{6} = 12$ or $12 - 6 = \underline{6}$; labeled tape diagram
- 9; $7 + \underline{9} = 16$ or $16 - 7 = \underline{9}$; labeled tape diagram
- 20; $9 + 11 = \underline{20}$; with labeled tape diagram
- 3; $13 + \underline{3} = 16$ or $16 - 13 = \underline{3}$; labeled tape diagram

Lesson 21

Problem Set

- 18; $7 + 11 = \underline{18}$; labeled tape diagram
- 11; $7 + \underline{11} = 18$ or $18 - 7 = \underline{11}$; labeled tape diagram
- 5; $14 + \underline{5} = 19$ or $19 - 14 = \underline{5}$; labeled tape diagram
- 18; $14 + 4 = \underline{18}$; labeled tape diagram
- 3; $15 + \underline{3} = 18$ or $18 - 15 = \underline{3}$; labeled tape diagram
- 13; $4 + \underline{13} = 17$ or $17 - 4 = \underline{13}$; labeled tape diagram

Exit Ticket

- 7; $6 + \underline{7} = 13$ or $13 - 6 = \underline{7}$; labeled tape diagram

Homework

- 18; $12 + 6 = \underline{18}$; labeled tape diagram
- 7; $7 + \underline{7} = 14$ or $14 - 7 = \underline{7}$; labeled tape diagram
- 5; $13 + \underline{5} = 18$ or $18 - 13 = \underline{5}$; labeled tape diagram
- 17; $8 + 9 = \underline{17}$; labeled tape diagram

Lesson 22

Sprint

Side A

- | | | |
|-------|--------|--------|
| 1. 4 | 11. 9 | 21. 2 |
| 2. 2 | 12. 5 | 22. 2 |
| 3. 2 | 13. 5 | 23. 6 |
| 4. 6 | 14. 4 | 24. 6 |
| 5. 3 | 15. 5 | 25. 7 |
| 6. 3 | 16. 6 | 26. 7 |
| 7. 3 | 17. 2 | 27. 9 |
| 8. 4 | 18. 2 | 28. 9 |
| 9. 4 | 19. 6 | 29. 19 |
| 10. 3 | 20. 11 | 30. 29 |

Side B

- | | | |
|-------|--------|--------|
| 1. 6 | 11. 7 | 21. 5 |
| 2. 3 | 12. 3 | 22. 5 |
| 3. 3 | 13. 3 | 23. 7 |
| 4. 8 | 14. 4 | 24. 7 |
| 5. 4 | 15. 4 | 25. 8 |
| 6. 4 | 16. 7 | 26. 8 |
| 7. 5 | 17. 2 | 27. 8 |
| 8. 4 | 18. 2 | 28. 8 |
| 9. 4 | 19. 7 | 29. 18 |
| 10. 5 | 20. 14 | 30. 28 |

Problem Set

- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.

Exit Ticket

a. and c. circled

Homework

- Answers will vary.
- Answers will vary.

Lesson 23

Core Fluency Practice

Set A

- | | | |
|-------|--------|--------|
| 1. 6 | 11. 8 | 21. 8 |
| 2. 6 | 12. 8 | 22. 9 |
| 3. 6 | 13. 6 | 23. 10 |
| 4. 6 | 14. 7 | 24. 10 |
| 5. 7 | 15. 8 | 25. 8 |
| 6. 7 | 16. 9 | 26. 7 |
| 7. 8 | 17. 10 | 27. 10 |
| 8. 7 | 18. 9 | 28. 9 |
| 9. 7 | 19. 9 | 29. 10 |
| 10. 6 | 20. 10 | 30. 9 |

Set B

- | | | |
|-------|-------|-------|
| 11. 0 | 11. 3 | 21. 3 |
| 12. 6 | 12. 4 | 22. 4 |
| 13. 1 | 13. 5 | 23. 5 |
| 14. 2 | 14. 4 | 24. 6 |
| 15. 7 | 15. 2 | 25. 7 |
| 16. 1 | 16. 3 | 26. 8 |
| 17. 6 | 17. 4 | 27. 7 |
| 18. 1 | 18. 2 | 28. 6 |
| 19. 7 | 19. 3 | 29. 5 |
| 20. 2 | 20. 4 | 30. 6 |

Set C

- | | | |
|-------|-------|-------|
| 1. 1 | 11. 3 | 21. 4 |
| 2. 5 | 12. 3 | 22. 4 |
| 3. 5 | 13. 2 | 23. 3 |
| 4. 1 | 14. 2 | 24. 3 |
| 5. 9 | 15. 3 | 25. 4 |
| 6. 1 | 16. 3 | 26. 4 |
| 7. 5 | 17. 2 | 27. 3 |
| 8. 5 | 18. 2 | 28. 3 |
| 9. 2 | 19. 3 | 29. 3 |
| 10. 2 | 20. 3 | 30. 3 |

Set D

- | | | |
|-------|-------|-------|
| 1. 6 | 11. 3 | 21. 4 |
| 2. 5 | 12. 4 | 22. 5 |
| 3. 6 | 13. 6 | 23. 3 |
| 4. 7 | 14. 2 | 24. 4 |
| 5. 4 | 15. 4 | 25. 5 |
| 6. 5 | 16. 6 | 26. 4 |
| 7. 7 | 17. 5 | 27. 3 |
| 8. 0 | 18. 1 | 28. 2 |
| 9. 1 | 19. 2 | 29. 3 |
| 10. 3 | 20. 2 | 30. 2 |

Set E

- | | | |
|-------|-------|-------|
| 1. 6 | 11. 4 | 21. 3 |
| 2. 4 | 12. 4 | 22. 5 |
| 3. 3 | 13. 2 | 23. 3 |
| 4. 7 | 14. 2 | 24. 7 |
| 5. 2 | 15. 2 | 25. 2 |
| 6. 7 | 16. 3 | 26. 7 |
| 7. 3 | 17. 4 | 27. 2 |
| 8. 4 | 18. 2 | 28. 3 |
| 9. 9 | 19. 6 | 29. 5 |
| 10. 5 | 20. 2 | 30. 3 |

Problem Set

- | | |
|--------------------------------------|---|
| 1. a. 3 tens, 4 ones; 2 tens 14 ones | 2. a. 1 ten, 12 ones |
| b. 3 tens, 9 ones; 2 tens, 19 ones | b. 3 tens, 6 ones |
| c. 2 tens, 20 ones; 4 tens, 0 ones | c. 3 tens, 4 ones |
| d. 2 tens, 13 ones; 1 ten, 23 ones | 3. a, c, and d should be checked. |
| | 4. Quick ten drawing showing both are correct |

Exit Ticket

- | | |
|----------------------|--------------------|
| 1. a. 3 tens, 2 ones | c. 2 tens, 16 ones |
| b. 1 ten, 18 ones | |

Homework

- | | |
|--------------------------------------|--|
| 1. a. 2 tens, 3 ones; 1 ten, 13 ones | 2. a. 3 tens, 8 ones |
| b. 3 tens, 4 ones; 2 tens, 14 ones | b. 2 tens, 6 ones |
| c. 3 tens, 8 ones; 1 ten, 28 ones | c. 2 tens, 1 one |
| d. 3 tens, 7 ones; 2 tens, 17 ones | 3. a, b, and c should be checked |
| | 4. Quick tens drawing showing Emi is correct |

Lesson 24

Problem Set

- 27
 - 37; 34; 34, 37
 - 29; 26; 26, 29
 - 39; 36; 36, 3, 39
 - 30; 15, 10, 25; 25, 5, 30
 - 10, 5; 40; 25, 10, 35; 35, 5, 40
- 28; number bonds or arrow way shown
 - 37; number bonds or arrow way shown
 - 30; number bonds or arrow way shown
 - 40; number bonds or arrow way shown
 - 38; number bonds or arrow way shown
 - 40; number bonds or arrow way shown
 - 39; number bonds or arrow way shown
 - 30; number bonds or arrow way shown

Exit Ticket

- 10, 3; 39; 26, 10, 36; 36, 3, 39
- 10, 9; 40; 21, 10, 31; 31, 9, 40

Homework

- 29
 - 39; 33; 33, 39
 - 30; 26; 26, 30
 - 40; 36; 36, 4, 40
 - 30; 17, 10, 27; 27, 3, 30
 - 10, 3; 40; 27, 10, 37; 37, 3, 40
- 27; 24; 24, 27
 - 10, 4, 38; 24, 10, 34; 34, 4, 38
 - 10, 4, 29; 15, 10, 25; 25, 4, 29
 - 10, 5, 39; 24, 10, 34; 34, 5, 39
 - 10, 7, 39; 22, 10, 32; 32, 7, 39
 - 10, 2, 39; 27, 10, 37; 37, 2, 39
 - 10, 2, 30; 18, 10, 28; 28, 2, 30
 - 10, 2, 40; 28, 10, 38; 38, 2, 40

Lesson 25

Sprint Core Fluency

Side A

- | | | |
|-------|-------|-------|
| 1. 5 | 11. 8 | 21. 9 |
| 2. 1 | 12. 2 | 22. 7 |
| 3. 0 | 13. 9 | 23. 7 |
| 4. 10 | 14. 8 | 24. 6 |
| 5. 2 | 15. 7 | 25. 6 |
| 6. 3 | 16. 1 | 26. 4 |
| 7. 4 | 17. 1 | 27. 8 |
| 8. 6 | 18. 5 | 28. 8 |
| 9. 7 | 19. 5 | 29. 2 |
| 10. 3 | 20. 9 | 30. 9 |

Side B

- | | | |
|-------|-------|--------|
| 1. 0 | 11. 8 | 21. 2 |
| 2. 10 | 12. 2 | 22. 8 |
| 3. 1 | 13. 9 | 23. 8 |
| 4. 5 | 14. 1 | 24. 7 |
| 5. 4 | 15. 8 | 25. 7 |
| 6. 3 | 16. 5 | 26. 3 |
| 7. 2 | 17. 5 | 27. 6 |
| 8. 8 | 18. 1 | 28. 4 |
| 9. 7 | 19. 1 | 29. 2 |
| 10. 3 | 20. 2 | 30. 28 |

Problem Set

1.
 - a. 25; 10, 1, $14 + 10 = 24$; $24 + 1 = 25$
 - b. 35; 10, 4, $21 + 10 = 31$; $31 + 4 = 35$
 - c. 29; 10, 4, $15 + 10 = 25$; $25 + 4 = 29$
 - d. 40; 10, 4, $26 + 10 = 36$; $36 + 4 = 40$
 - e. 39; 10, 3, $26 + 10 = 36$; $36 + 3 = 39$
 - f. 37; 10, 3, $24 + 10 = 34$; $34 + 3 = 37$
2.
 - a. 40; 1, 10; $29 + 1 = 30$; $30 + 10 = 40$
 - b. 30; 3, 10; $17 + 3 = 20$; $20 + 10 = 30$
 - c. 30; 6, 10; $14 + 6 = 20$; $20 + 10 = 30$
 - d. 39; 3, 10; $26 + 3 = 29$; $29 + 10 = 39$
 - e. 39; 1, 10; $28 + 1 = 29$; $29 + 10 = 39$
 - f. 39; 10, 2; $27 + 2 = 29$; $29 + 10 = 39$
 - g. 30; 2, 10; $18 + 2 = 20$; $20 + 10 = 30$
 - h. 40; 8, 10; $22 + 8 = 30$; $30 + 10 = 40$

Exit Ticket

- a. 39; varied number bonds and sentences
- b. 40; varied number bonds and sentences

Homework

1.
 - a. 26; 10, 2, $14 + 10 = 24$; $24 + 2 = 26$
 - b. 35; 10, 4, $21 + 10 = 31$; $31 + 4 = 35$
 - c. 29; 10, 4, $15 + 10 = 25$; $25 + 4 = 29$
 - d. 39; 10, 4, $25 + 10 = 35$; $35 + 4 = 39$
 - e. 39; 10, 6, $23 + 10 = 33$; $33 + 6 = 39$
 - f. 40; 10, 6, $24 + 10 = 34$; $34 + 6 = 40$
2.
 - a. 37; $27 + 10 = 37$
 - b. 40; 3, 10; $27 + 3 = 30$; $30 + 10 = 40$
 - c. 39; 3, 10; $26 + 3 = 29$; $29 + 10 = 39$
 - d. 40; 4, 10; $26 + 4 = 30$; $30 + 10 = 40$
 - e. 30; 2, 10; $18 + 2 = 20$; $20 + 10 = 30$
 - f. 39; 10, 8; $21 + 8 = 29$; $29 + 10 = 39$
 - g. 30; 1, 10; $19 + 1 = 20$; $20 + 10 = 30$
 - h. 40; 9, 10; $21 + 9 = 30$; $30 + 10 = 40$

Lesson 26

Problem Set

- 32
 - 31
 - 34; 29; 29, 34
 - 33; 28; 28, 33
 - 32; 29; 29, 3, 32
 - 35; 29; 29, 6, 35
- 33
 - 31
 - 32; 20; 32
 - 34; 20; 20, 34
 - 32; 17, 20; 20, 32
 - 35; 18, 2, 20; 20, 15, 35

Exit Ticket

- 10, 5; 34; $19 + 10 = 29$; $29 + 5 = 34$
 - 10, 7; 36; $19 + 10 = 29$; $29 + 7 = 36$
- 14, 1; 34; $19 + 1 = 20$; $20 + 14 = 34$
 - 1, 16; 36; $19 + 1 = 20$; $20 + 16 = 36$

Homework

- 31
 - 32
 - 32; 27; 27, 32
 - 33; 27; 27, 33
 - 31; 27; 27, 4, 31
 - 36; 29; 29, 7, 36
- 32
 - 33
 - 33; 20; 33
 - 35; 20; 20, 35
 - 37; 19, 20; 20, 37
 - 38; 19, 1, 20; 20, 18, 38

Lesson 27

Problem Set

- | | | | | | |
|----|----|----|----|----|----|
| 1. | a. | 31 | 2. | a. | 31 |
| | b. | 30 | | b. | 31 |
| | c. | 32 | | c. | 32 |
| | d. | 32 | | d. | 33 |
| | e. | 31 | | e. | 35 |
| | f. | 34 | | f. | 32 |
| | g. | 35 | | g. | 38 |
| | h. | 37 | | h. | 36 |

Exit Ticket

- | | | |
|----|----|----|
| 1. | a. | 31 |
| | b. | 30 |
| | c. | 32 |
| | d. | 32 |

Homework

- | | | | | | |
|----|----|----|----|----|----|
| 1. | a. | 31 | 2. | a. | 33 |
| | b. | 31 | | b. | 36 |
| | c. | 32 | | c. | 35 |
| | d. | 31 | | d. | 32 |
| | e. | 33 | | e. | 31 |
| | f. | 34 | | f. | 31 |
| | g. | 34 | | g. | 38 |
| | h. | 35 | | h. | 36 |

Lesson 28

Problem Set

- | | | | | | |
|----|----|---|----|----|----|
| 1. | a. | 35; work shown | 2. | a. | 28 |
| | b. | 30; work shown; rectangle checked to indicate new ten | | b. | 38 |
| | c. | 40; work shown; rectangle checked to indicate new ten | | c. | 38 |
| | d. | 29; work shown | | d. | 40 |
| | e. | 40; work shown; rectangle checked to indicate new ten | | e. | 32 |
| | f. | 33; work shown; rectangle checked to indicate new ten | | f. | 36 |
| | | | | g. | 40 |
| | | | | h. | 35 |

Exit Ticket

- 28; work shown
- 40; work shown
- 34; work shown
- 36; work shown

Homework

- | | | | |
|----|----------------|----|----------------|
| a. | 29; work shown | i. | 37; work shown |
| b. | 31; work shown | j. | 39; work shown |
| c. | 32; work shown | k. | 35; work shown |
| d. | 38; work shown | l. | 36; work shown |
| e. | 39; work shown | m. | 39; work shown |
| f. | 32; work shown | n. | 40; work shown |
| g. | 33; work shown | o. | 35; work shown |
| h. | 35; work shown | p. | 37; work shown |

Lesson 29

Problem Set

- 25; work shown
 - 35; work shown
 - 29; work shown
 - 39; work shown
 - 40; work shown
 - 33; work shown
 - 32; work shown
 - 35; work shown
- 28; work shown
 - 38; work shown
 - 40; work shown
 - 31; work shown
 - 39; work shown
 - 34; work shown
 - 33; work shown
 - 33; work shown

Exit Ticket

- 32; work shown
- 37; work shown
- 40; work shown
- 40; work shown

Homework

- 28; work shown
 - 38; work shown
 - 39; work shown
 - 33; work shown
 - 31; work shown
 - 39; work shown
 - 33; work shown
 - 34; work shown
- 29; work shown
 - 38; work shown
 - 32; work shown
 - 40; work shown
 - 37; work shown
 - 35; work shown
 - 29; work shown
 - 36; work shown