



Answer Key

GRADE 2 • MODULE 2

Addition and Subtraction of Length Units

Lesson 1

Sprint

Side A

1. 3	12. 7	23. 100	34. 148
2. 13	13. 17	24. 21	35. 162
3. 23	14. 27	25. 121	36. 188
4. 73	15. 57	26. 36	37. 169
5. 5	16. 14	27. 136	38. 180
6. 4	17. 47	28. 23	39. 193
7. 14	18. 13	29. 123	40. 189
8. 24	19. 37	30. 144	41. 198
9. 84	20. 18	31. 139	42. 170
10. 9	21. 88	32. 148	43. 200
11. 8	22. 100	33. 149	44. 159

Side B

1. 2	12. 6	23. 100	34. 148
2. 12	13. 16	24. 31	35. 172
3. 22	14. 26	25. 131	36. 168
4. 72	15. 56	26. 35	37. 159
5. 4	16. 13	27. 135	38. 190
6. 3	17. 46	28. 22	39. 194
7. 13	18. 12	29. 122	40. 169
8. 23	19. 36	30. 143	41. 197
9. 83	20. 18	31. 129	42. 180
10. 8	21. 78	32. 148	43. 200
11. 7	22. 100	33. 149	44. 179

Problem Set

1. 6
2. 5
3. 7
4. 9
5. 9 cm
6. a. 14 cm
b. 9 cm

Exit Ticket

No; explanations will vary.

Homework

1. 4
2. 5
3. 4
4. 10
5. 79 cm
6. 24 cm
7. 29 cm

Lesson 2

Problem Set

1. 4
2. 6
3. 10
4. 40 cm
5. Answers will vary.

Exit Ticket

1. a. No. Explanations will vary.
b. Answers will vary.

Homework

1. 5
2. 8
3. 7
4. a. 9
b. 6
c. 4
d. Red
e. Yellow
f. 19

Lesson 3

Sprint

Side A

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

Side B

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

Problem Set

1. 4
2. 6
3. 9
4. Side A = 4 cm; Side B = 9 cm; Side C = 8 cm
 - a. Side A
 - b. 13
 - c. 1

Exit Ticket

1.
 - a. 6
 - b. 10
 - c. 3
2. 8

Homework

1. 3
2. 11
3. 8
4. Side A = 3 cm; Side B = 6 cm; Side C = 5 cm; Side D = 6 cm
 - a. Side B
 - b. 3
 - c. 2
 - d. 12
 - e. 20

Lesson 4

Sprint

Side A

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

Side B

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

Problem Set

- Answers will vary.
- Answers will vary.
- Answers will vary.
- 28

Exit Ticket

- m
 - cm
 - m
- Centimeters; explanations will vary.

Homework

- cm
 - m
 - cm
 - cm
 - m
 - m
 - cm
 - cm
 - m
 - m
- m
 - m
 - cm
 - m
 - cm
- Triangle A: 3
Semi-circle C: 5
Rectangle E: 4
Square B: 3
Hexagon D: 4
 - Answers will vary.

Lesson 5

Problem Set

1.
 - a. Answers will vary.
 - b. 6
2.
 - a. Answers will vary.
 - b. 15
3.
 - a. Answers will vary.
 - b. 11
4.
 - a. Answers will vary.
 - b. 8
5.
 - a. Answers will vary.
 - b. 5
6.
 - a. Meters; answers will vary.
 - b. Centimeters; answers will vary.
 - c. Meters, answers will vary.
 - d. Meters; answers will vary.
 - e. Centimeters; answers will vary.
7.
 - a. Answers will vary.
 - b. Answers will vary.
 - c. Answers will vary.

Exit Ticket

1.
 - a. 1 cm
 - b. 2 m
 - c. 17 cm
2. Answers will vary.
3. Answers will vary.

Homework

1. Answers will vary.
2.
 - a. 3 m
 - b. 14 cm
 - c. 17 cm
 - d. 16 cm
 - e. 50 m
3.
 - a. 6
 - b. 1
 - c. 15
 - d. 9
 - e. 4

Lesson 6

Sprint

Side A

- | | | | |
|-----------|------------|------------|------------|
| 1. 1 cm | 12. 55 cm | 23. 110 cm | 34. 133 cm |
| 2. 11 cm | 13. 65 cm | 24. 110 cm | 35. 133 cm |
| 3. 12 cm | 14. 66 cm | 25. 111 cm | 36. 142 cm |
| 4. 22 cm | 15. 86 cm | 26. 101 cm | 37. 144 cm |
| 5. 30 cm | 16. 68 m | 27. 111 cm | 38. 154 cm |
| 6. 31 cm | 17. 88 cm | 28. 112 cm | 39. 155 cm |
| 7. 43 cm | 18. 98 cm | 29. 115 cm | 40. 199 cm |
| 8. 33 cm | 19. 98 m | 30. 115 cm | 41. 225 cm |
| 9. 53 cm | 20. 1 m | 31. 116 cm | 42. 255 cm |
| 10. 50 cm | 21. 101 cm | 32. 108 cm | 43. 295 cm |
| 11. 55 cm | 22. 1 m | 33. 119 cm | 44. 3 m |

Side B

- | | | | |
|-----------|------------|------------|------------|
| 1. 1 cm | 12. 70 cm | 23. 111 cm | 34. 132 cm |
| 2. 12 cm | 13. 75 cm | 24. 110 cm | 35. 133 cm |
| 3. 12 cm | 14. 77 cm | 25. 110 cm | 36. 143 cm |
| 4. 32 cm | 15. 87 cm | 26. 111 cm | 37. 144 cm |
| 5. 40 cm | 16. 97 m | 27. 117 cm | 38. 154 cm |
| 6. 41 cm | 17. 88 cm | 28. 112 cm | 39. 155 cm |
| 7. 44 cm | 18. 98 cm | 29. 115 cm | 40. 199 cm |
| 8. 54 cm | 19. 1 m | 30. 116 cm | 41. 225 cm |
| 9. 65 cm | 20. 100 cm | 31. 117 cm | 42. 255 cm |
| 10. 60 cm | 21. 101 cm | 32. 118 cm | 43. 295 cm |
| 11. 65 cm | 22. 101 cm | 33. 120 cm | 44. 3 m |

Problem Set

1.
 - a. 15
 - b. 5
 - c. 10
2.
 - a. 8
 - b. 9
 - c. 1
3.
 - a. 4
 - b. 7
 - c. 8
 - d. 19
 - e. 3
 - f. 4
 - g. 1
 - h. 6
4.
 - a. 10
 - b. 20
 - c. 15
 - d. 19
5. 24 cm
6. 71 cm
7. 12; Rectangle drawn with longest sides labeled 24 cm and shortest sides labeled 12 cm; 72 cm

Exit Ticket

1. 3
2. 7
3. 2; shorter

Homework

1.
 - a. 4
 - b. 26
2.
 - a. 8
 - b. 9
 - c. 5
 - d. 22
 - e. 3
 - f. 1
 - g. 4
 - h. 7
3.
 - a. 25
 - b. 15
 - c. 20
 - d. 245
4.
 - a. 10
 - b. 46
 - c. 46
 - d. 35
 - e. 49
5.
 - a. 33 cm
 - b. 63 cm
6. 56 cm

Lesson 7

Sprint

Side A

1. 2	12. 71	23. 1	34. 50
2. 12	13. 2	24. 11	35. 2
3. 22	14. 12	25. 51	36. 12
4. 52	15. 22	26. 60	37. 82
5. 2	16. 92	27. 1	38. 94
6. 12	17. 2	28. 11	39. 72
7. 22	18. 12	29. 21	40. 53
8. 62	19. 22	30. 61	41. 32
9. 1	20. 42	31. 4	42. 22
10. 11	21. 40	32. 14	43. 45
11. 21	22. 80	33. 74	44. 63

Side B

1. 1	12. 81	23. 1	34. 80
2. 11	13. 3	24. 11	35. 2
3. 21	14. 13	25. 61	36. 12
4. 51	15. 23	26. 30	37. 72
5. 3	16. 93	27. 1	38. 84
6. 13	17. 1	28. 11	39. 62
7. 23	18. 11	29. 21	40. 43
8. 63	19. 21	30. 71	41. 22
9. 1	20. 41	31. 4	42. 32
10. 11	21. 20	32. 14	43. 55
11. 21	22. 60	33. 74	44. 73

Problem Set

1.
 - a. 3
 - b. 9
 - c. 2
 - d. 6
 - e. 1
 - f. 3
2.
 - a. 3
 - b. 10
 - c. 1
 - d. 3
 - e. 2
 - f. 4
3. Lines measuring 18 cm and 12 cm drawn
 - a. 6
 - b. 4
4. Lines measuring 6 cm and 15 cm drawn
 - a. 2
 - b. 5
 - c. 9
 - d. 3
 - e. 7
 - f. 21
5. Answers will vary.

Exit Ticket

- a. 4
- b. 12
- c. 2
- d. 6
- e. 3
- f. 9
- g. Answers will vary

Homework

1.
 - a. 3
 - b. 9
 - c. 6; 18
2.
 - a. 4
 - b. 16
 - c. 2
 - d. 7
 - e. 2
 - f. 2
3. Lines measuring 9 cm and 12 cm drawn
 - a. 3
 - b. 4
 - c. 3
 - d. 1
 - e. 7
 - f. 21
4.
 - a. 100
 - b. Line X
 - c. 11
5.
 - a. 200
 - b. 3
 - c. Line Q
 - d. 100 cm or 1 m
6.
 - a. 4
 - b. 6
 - c. Answers will vary.

Lesson 8

Sprint

Side A

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. 90 cm | 12. 75 cm | 23. 38 cm | 34. 45 cm |
| 2. 70 cm | 13. 73 cm | 24. 28 cm | 35. 56 cm |
| 3. 50 cm | 14. 63 cm | 25. 8 cm | 36. 45 cm |
| 4. 30 cm | 15. 62 cm | 26. 71 cm | 37. 12 cm |
| 5. 10 cm | 16. 61 cm | 27. 61 cm | 38. 67 cm |
| 6. 20 cm | 17. 51 cm | 28. 41 cm | 39. 34 cm |
| 7. 40 cm | 18. 50 cm | 29. 11 cm | 40. 1 cm |
| 8. 60 cm | 19. 48 cm | 30. 12 cm | 41. 89 cm |
| 9. 80 cm | 20. 44 cm | 31. 32 cm | 42. 85 cm |
| 10. 79 cm | 21. 42 cm | 32. 82 cm | 43. 83 cm |
| 11. 77 cm | 22. 38 cm | 33. 85 cm | 44. 81 cm |

Side B

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. 99 cm | 12. 67 cm | 23. 28 cm | 34. 90 cm |
| 2. 90 cm | 13. 65 cm | 24. 18 cm | 35. 89 cm |
| 3. 80 cm | 14. 63 cm | 25. 72 cm | 36. 67 cm |
| 4. 60 cm | 15. 61 cm | 26. 62 cm | 37. 45 cm |
| 5. 40 cm | 16. 51 cm | 27. 52 cm | 38. 78 cm |
| 6. 20 cm | 17. 41 cm | 28. 55 cm | 39. 12 cm |
| 7. 10 cm | 18. 40 cm | 29. 57 cm | 40. 1 cm |
| 8. 30 cm | 19. 38 cm | 30. 66 cm | 41. 99 cm |
| 9. 50 cm | 20. 34 cm | 31. 76 cm | 42. 95 cm |
| 10. 70 cm | 21. 32 cm | 32. 86 cm | 43. 93 cm |
| 11. 69 cm | 22. 28 cm | 33. 88 cm | 44. 83 cm |

Problem Set

1.
 - a. 8
 - b. 10
 - c. 18
 - d. 2; shorter
2. 19 cm
3. 19 cm
4. 32
5.
 - a. 35
 - b. 42
 - c. 7
 - d. Route A

Exit Ticket

Line drawn beginning at 2 cm and ending at 12 cm labeled R; Line drawn beginning at 5 cm and ending at 11 cm labeled S.

- a. Line R extended by 3 cm; Line S extended by 4 cm
- b. 13
- c. 10
- d. 3; shorter

Homework

1.
 - a. 10
 - b. 7
 - c. 17
 - d. 3; longer
2. 18 m
3.
 - a. 3 written in each box
 - b. 15
 - c. 2 parts
4. 19 more centimeters

Lesson 9

Problem Set

1. Answers will vary.
 - a. Answers will vary.
 - b. Answers will vary.
2.
 - a. Path 1
 - b. Path 3
 - c. Answers will vary.
3.
 - a. Answers will vary.
 - b. 22
 - c. Answers will vary.

Exit Ticket

1. 15; 8
2. No; answers will vary.
3. Tape diagram showing that 15 cm is 7 cm longer than 8 cm

Homework

1. Answers will vary.
 - a. Answers will vary.
 - b. Answers will vary.
 - c. Answers will vary.
2.
 - a. 9
 - b. 11
 - c. 20
 - d. 2; shorter
3.
 - a. 40
 - b. 60
4.
 - a. 98
 - b. Steven
 - c. Tape diagram showing that 98 cm is 23 cm longer than 75 cm

Lesson 10

Problem Set

- Step 1: 12 cm
Step 2: 38 cm
- Step 1: Tape diagram is appropriately drawn;
21 cm
- Step 2: Tape diagram is appropriately drawn;
51 cm
- Step 1: Tape diagram is appropriately drawn;
8 cm
Step 2: Tape diagram is appropriately drawn;
24 cm
- Step 1: Tape diagram is appropriately drawn;
26 cm
Step 2: Tape diagram is appropriately drawn;
46 cm

Exit Ticket

29 cm

Homework

- Step 1: 20 cm
Step 2: 49 cm
- Step 1: Tape diagram is appropriately drawn;
60 cm
Step 2: Tape diagram is appropriately drawn;
101 cm