



## Answer Key

# GRADE 5 • MODULE 2

## Multi-Digit Whole Number and Decimal Fraction Operations

## Lesson 1

### Problem Set

- 46; 460
  - 46 hundreds; 4,600
  - Ones; 164
  - Thousands; 164,000
  - 331; 3; thousands; 993,000
  - 5; 6; ten thousands; 300,000
- False; answers will vary.
  - False; answers will vary.
  - True; answers will vary.
  - True; answers will vary.
  - False; answers will vary.
- Answers provided
  - 135; 1,350; 13,500; 135,000
  - 200; 2,000; 20,000; 200,000
  - 1,436; 143,600; 1,436,000; 143,600,000
- Answers will vary.
- 36,000,000 gal
- \$9,900

### Exit Ticket

- 38,000
  - 300,000
  - 75,000
- Answers will vary.

### Homework

- 129; 1,290
  - 129; 12,900
  - Hundreds; 16,600
  - 44; 4; ten thousands; 1,760,000
  - 8; 5; ten thousands; 400,000
- True; answers will vary.
  - False; answers will vary.
  - True; answers will vary.
  - False; answers will vary.
- Answers provided
  - 400; 4,000; 400,000; 400,000
  - 1,911; 191,100; 1,911,000; 19,110,000
- 600 in<sup>2</sup>
- 2,115,000

## Lesson 2

### Sprint

#### Side A

- |            |             |             |             |
|------------|-------------|-------------|-------------|
| 1. 90      | 12. 700,000 | 23. 73,000  | 34. 492,000 |
| 2. 900     | 13. 20      | 24. 600     | 35. 340     |
| 3. 9,000   | 14. 300     | 25. 6,000   | 36. 6,290   |
| 4. 80      | 15. 320     | 26. 60,000  | 37. 9,400   |
| 5. 800     | 16. 40      | 27. 6,500   | 38. 23,800  |
| 6. 8,000   | 17. 500     | 28. 65,200  | 39. 47,000  |
| 7. 80,000  | 18. 540     | 29. 34,200  | 40. 294,000 |
| 8. 70      | 19. 370     | 30. 80,000  | 41. 17,400  |
| 9. 700     | 20. 840     | 31. 800,000 | 42. 285,000 |
| 10. 7,000  | 21. 8,400   | 32. 860,000 | 43. 95,100  |
| 11. 70,000 | 22. 84,000  | 33. 867,000 | 44. 129,000 |

#### Side B

- |            |             |             |             |
|------------|-------------|-------------|-------------|
| 1. 80      | 12. 600,000 | 23. 37,000  | 34. 942,000 |
| 2. 800     | 13. 30      | 24. 500     | 35. 740     |
| 3. 8,000   | 14. 200     | 25. 5,000   | 36. 2,690   |
| 4. 70      | 15. 230     | 26. 50,000  | 37. 4,900   |
| 5. 700     | 16. 50      | 27. 5,600   | 38. 32,800  |
| 6. 7,000   | 17. 400     | 28. 56,200  | 39. 37,000  |
| 7. 70,000  | 18. 450     | 29. 43,200  | 40. 924,000 |
| 8. 60      | 19. 730     | 30. 70,000  | 41. 14,700  |
| 9. 600     | 20. 480     | 31. 700,000 | 42. 825,000 |
| 10. 6,000  | 21. 4,800   | 32. 760,000 | 43. 65,100  |
| 11. 60,000 | 22. 48,000  | 33. 765,000 | 44. 192,000 |

**Problem Set**

1.
  - a. 600; 50; 30,000; 30,000
  - b. 1,100; 60; 66,000; 66,000
  - c. 5,800; 30; 174,000; 174,000
2.
  - a. Answers provided
  - b.  $28,000 \times 400$ ; 11,200,000
  - c.  $9,000 \times 60$ ; 540,000
  - d.  $900 \times 600$ ; 540,000
  - e.  $40,000 \times 500$ ; 20,000,000
3.  $2,146 \times 121$ ; explanations will vary.
4.
  - a. 600; 40
  - b. 700; 700
  - c. 8,000; 500
5. 800,000
6.
  - a. \$20,000
  - b. Answers will vary.

**Exit Ticket**

1.
  - a.  $700 \times 100$ ; 70,000
  - b.  $3,000 \times 8,000$ ; 24,000,000
  - c.  $400 \times 9,000$ ; 3,600,000
  - d.  $9,000 \times 60,000$ ; 540,000,000

**Homework**

1.
  - a. 700; 80; 56,000; 56,000
  - b. 6,000; 70; 420,000; 420,000
  - c. 9,000; 50; 450,000; 450,000
2.
  - a. Answers provided
  - b.  $80,000 \times 200$ ; 16,000,000
  - c.  $10,000 \times 40$ ; 400,000
  - d.  $1,000 \times 400$ ; 400,000
  - e.  $90,000 \times 900$ ; 81,000,000
3.  $8,146 \times 121$ ; explanations will vary.
4.
  - a. 800; 30
  - b. 600; 700
  - c. 8,000; 500
5. 3,200,000
6.
  - a. 10
  - b. \$18,000

## Lesson 3

### Problem Set

- Accurate model drawn;  $(8 + 7) \times 2$
  - Accurate model drawn;  $4 \times (14 + 26)$
  - Accurate model drawn;  $3 \times (37.5 - 24.5)$
  - Accurate model drawn;  $(3 \times 16) + (2 \times 9)$
  - Accurate model drawn;  $(4 \times 25) - (3 \times 25)$
  - Accurate model drawn;  $3 \times (33 + 27)$
- Answers will vary; 360
  - Answers will vary; 550
  - Answers will vary; 2,300
  - Answers will vary; 76
- $>$ ; answers will vary.
  - $<$ ; answers will vary.
  - $=$ ; answers will vary.
- Model drawn correctly;  $(7 \times 15) + (38 \times 15)$
- MeiLing's is equivalent; answers will vary.
- $24 \times (8 + 12)$
  - $2 \times 24 \times (8 + 12)$
  - 1,440

### Exit Ticket

- Model drawn correctly;  $8 \times 47 - 7 \times 47$
  - Model drawn correctly;  $6 \times (12 + 8)$
- $>$

### Homework

- Accurate model drawn;  $(21 + 4) \times 2$
  - Accurate model drawn;  $5 \times (7 + 23)$
  - Accurate model drawn;  $2 \times (49.5 - 37.5)$
  - Accurate model drawn;  $3 \times 15 + 4 \times 2$
  - Accurate model drawn;  $9 \times 37 - 8 \times 37$
  - Accurate model drawn;  $3 \times (45 + 55)$
- Answers will vary; 160
  - Answers will vary; 220
  - Answers will vary; 2,600
  - Answers will vary; 130
- $>$ ; answers will vary.
  - $>$ ; answers will vary.
- No; answers will vary.
  - $(14 + 12) \times (8 + 12)$ ; 256

## Lesson 4

### Problem Set

- $(15 - 1) \times 29$  and  $(10 \times 29) - (6 \times 29)$
  - $(38 + 40) \times (38 + 5)$  and  $45 \times (40 + 2)$
  - $(74 \times 5) + (74 \times 9)$
- 19; 20; 1; 500; 25; 475
  - 11; 10; 1; 10; 1; 240; 24; 264
  - 79; 80; 80; 1; 1,120; 14; 1,106
  - 21; 20; 1; 20; 1; 1500; 75; 1,575
- Fifteens; fifteens; fifteen; 15; 15; 300; 15; 285
  - Fifteens; fifteens; fifteens; 15; 15; 150; 60; 210
  - Twenty-fives; twenty-fives; twenty-fives; 25; 25; 250; 50; 300
  - Seventeens; seventeens; seventeens; 17; 17; 340; 34; 306
- Answers will vary.
- 1,515
  - 1,782
- Answers will vary.
- Answers will vary;  $(174 + 126) \times 29$
  - Answers will vary; 8,700

### Exit Ticket

- 49; 50; 1; 550; 11; 539
  - 13; 10; 3; 10; 3; 250; 75; 325

**Homework**

1.
  - a.  $(30 \times 19) - (7 \times 29)$  and  $(40 - 2) \times 19$
  - b.  $(26 + 30) \times (26 + 5)$  and  $35 \times (20 + 60)$
  - c.  $(34 \times 8) + (34 \times 9)$
2.
  - a. 19; 20; 1; 1,000; 50; 950
  - b. 11; 10; 1; 10; 1 twenty -six; 260; 26; 286
  - c. 49; 50; 50; 1; 600; 12; 588
  - d. 12; 10; 2; 10; 2; 250; 50; 300
3.
  - a. Twelves; twelves; twelve; 12; 12; 360; 12; 348
  - b. Elevens; elevens; eleven; 11; 11; 330; 11; 341
  - c. Elevens; elevens; elevens; 11; 11; 220; 11; 209
  - d. Fifties; fifties; fifties; 500; 150; 650
4. Answers will vary.
5.
  - a. 1584
  - b. 2020
6.  $266 \text{ ft}^2$ ; Answer will vary
7. 2323; Answers will vary

## Lesson 5

### Pattern Sheet

- |           |            |            |            |
|-----------|------------|------------|------------|
| 1. 300    | 12. 450    | 23. 24,000 | 34. 2,400  |
| 2. 600    | 13. 900    | 24. 24,000 | 35. 24,000 |
| 3. 900    | 14. 8,000  | 25. 21,000 | 36. 1,800  |
| 4. 250    | 15. 6,000  | 26. 1,200  | 37. 18,000 |
| 5. 500    | 16. 4,000  | 27. 1,500  | 38. 24,000 |
| 6. 750    | 17. 400    | 28. 1,500  | 39. 24,000 |
| 7. 1,000  | 18. 800    | 29. 2,500  | 40. 28,000 |
| 8. 400    | 19. 1,200  | 30. 2,700  | 41. 32,000 |
| 9. 800    | 20. 12,000 | 31. 27,000 | 42. 49,000 |
| 10. 1,000 | 21. 15,000 | 32. 2,100  | 43. 64,000 |
| 11. 1,000 | 22. 18,000 | 33. 21,000 | 44. 72,000 |

### Problem Set

- |             |             |
|-------------|-------------|
| 1. a. 714   | 3. \$7,248  |
| b. 9,114    | 4. 508.2 kg |
| 2. a. 5,172 |             |
| b. 2,829    |             |
| c. 9,984    |             |

### Exit Ticket

1. a. 483  
b. 1,716



**Homework**

1.
  - a. 504
  - b. 5,082
2.
  - a. 6,908
  - b. 9,086
  - c. 6,816
3. 2.99 m
4. \$1,704

## Lesson 6

### Pattern Sheet

- |         |           |           |           |
|---------|-----------|-----------|-----------|
| 1. 500  | 12. 594   | 23. 4,950 | 34. 2,079 |
| 2. 495  | 13. 400   | 24. 4,950 | 35. 3,100 |
| 3. 495  | 14. 396   | 25. 8,000 | 36. 3,069 |
| 4. 300  | 15. 700   | 26. 7,920 | 37. 7,100 |
| 5. 297  | 16. 693   | 27. 6,000 | 38. 7,029 |
| 6. 297  | 17. 900   | 28. 5,940 | 39. 4,200 |
| 7. 200  | 18. 891   | 29. 1,100 | 40. 4,158 |
| 8. 198  | 19. 800   | 30. 1,089 | 41. 5,247 |
| 9. 198  | 20. 792   | 31. 1,089 | 42. 6,336 |
| 10. 600 | 21. 500   | 32. 2,100 | 43. 7,425 |
| 11. 594 | 22. 5,000 | 33. 2,079 | 44. 9,603 |

### Problem Set

- |              |   |
|--------------|---|
| 1. a. 1,680  | 3. \$3,584                                  |
| b. 22,680    |   |
| 2. a. 69,736 | 4. a. \$2,375                               |
| b. 90,052    | b. $19 \times 125 + 4 \times 125 = \$2,875$ |
| c. 30,940    |   |
| d. 35,008    |   |

### Exit Ticket

1. a. 3,276  
b. 32,886

**Homework**

1.
  - a. 972
  - b. 18,972
2.
  - a. 34,397
  - b. 26,288
  - c. 34,868
  - d. 25,392
3. \$6,000
4. \$28,466

## Lesson 7

### Sprint

#### Side A

- |          |           |           |            |
|----------|-----------|-----------|------------|
| 1. 20    | 12. 60    | 23. 660   | 34. 42     |
| 2. 120   | 13. 130   | 24. 6,600 | 35. 420    |
| 3. 1,200 | 14. 26    | 25. 240   | 36. 4,200  |
| 4. 40    | 15. 260   | 26. 480   | 37. 1,640  |
| 5. 340   | 16. 1,300 | 27. 2,400 | 38. 4,500  |
| 6. 3,400 | 17. 2,600 | 28. 4,800 | 39. 42,600 |
| 7. 70    | 18. 8     | 29. 690   | 40. 720    |
| 8. 270   | 19. 88    | 30. 6,900 | 41. 2,250  |
| 9. 2,700 | 20. 880   | 31. 142   | 42. 25,200 |
| 10. 30   | 21. 8,800 | 32. 1,420 | 43. 5,220  |
| 11. 6    | 22. 66    | 33. 28    | 44. 63,200 |

#### Side B

- |          |           |           |            |
|----------|-----------|-----------|------------|
| 1. 30    | 12. 80    | 23. 880   | 34. 52     |
| 2. 130   | 13. 140   | 24. 8,800 | 35. 520    |
| 3. 1,300 | 14. 28    | 25. 420   | 36. 5,200  |
| 4. 50    | 15. 280   | 26. 840   | 37. 2,160  |
| 5. 350   | 16. 1,400 | 27. 4,200 | 38. 4,500  |
| 6. 3,500 | 17. 2,800 | 28. 8,400 | 39. 48,600 |
| 7. 80    | 18. 6     | 29. 960   | 40. 640    |
| 8. 280   | 19. 66    | 30. 9,600 | 41. 1,950  |
| 9. 2,800 | 20. 660   | 31. 162   | 42. 14,400 |
| 10. 40   | 21. 6,600 | 32. 1,620 | 43. 5,340  |
| 11. 8    | 22. 88    | 33. 39    | 44. 60,800 |

**Problem Set**

1.
  - a. 169,312
  - b. 145,262
  - c. Answers will vary.
2.
  - a. 2,562,305
  - b. 2,618,350
3.
  - a. 9,342
  - b. 399,762
  - c. 71,622
  - d. 278,622
4. \$251,535
5. 461,160
6. 2,494,920

**Exit Ticket**

1.
  - a. 164,944
  - b. 132,894

**Homework**

1.
  - a. 94,458
  - b. 83,538
  - c. Answers will vary.
2.
  - a. 2,169,490
  - b. 1,466,762
3.
  - a. 152,082
  - b. 509,082
  - c. 130,782
  - d. 437,782
4. 986,595
5. \$47,188

## Lesson 8

### Problem Set

- 69,864
  - 280,000; 246,264
  - 280,000; 326,638
  - 400,000; 396,237
  - 2,800,000; 2,297,312
  - 2,800,000; 3,252,990
  - 1,000,000; 1,099,750
  - 2,400,000; 2,414,412
  - 3,100,000; 3,064,635
- 776 L 475 mL; answers will vary.
- \$71,713
- No; answers will vary.
  - 4,410
  - 9

### Exit Ticket

- 117,728; 300; 400; 120,000
  - 1,138,018; 2,800; 400; 1,120,000

### Homework

- 46,488
  - 210,000; 219,185
  - 240,000; 272,636
  - 210,000; 210,755
  - 2,520,000; 2,550,048
  - 1,500,000; 1,604,564
  - 1,200,000; 1,317,520
  - 1,500,000; 1,509,514
  - 1,800,000; 1,550,416
- No; answers will vary.
- 600,000; answers will vary.

## Lesson 9

### Problem Set

- \$1,518,720
- 26,104
  - Leah; \$1,996
- $26 \times 1,334 + 19 \times 749 = \$48,915$
- \$10,822
- $2 \times (2 \times 9 + 2 \times 6) \times 12 \times 3 = 2,160$  min
- 3,874
  - 46,488

### Exit Ticket

- \$103.50
  - \$89.70
  - \$193.20
  - $15 \times (30 + 26) = 840$

### Homework

- 1,529
- 4,832 yd
  - 62,816 yd
- \$13,608
- 40,500 cm<sup>2</sup>
- 4,100 yd<sup>2</sup>
  - No; length is too short; answers will vary.
  - \$249,600

## Lesson 10

### Problem Set

- 20; 2; 40; 52.8
  - 3; 30; 90; 102.3
- 3; 50; 150; 150.4
  - 3, 90, 270; 300.8
  - 6, 40, 240; 277.2
  - 10, 20, 200; 248.2
  - 8, 30, 240; 278.8
  - 200, 20, 4000; 2726.8
- Answers will vary.
- 4.1 m

### Exit Ticket

- 697.2
  - 93.5
- 1,697.5; answers will vary.

### Homework

- 50; 1; 50; 63.6
  - 2; 80; 160; 172.2
- 4; 30; 120; 142.8
  - 70; 6; 420; 377
  - $3 \times 20 = 60$ ; 52.8
  - $15 \times 20 = 300$ ; 265.2
  - $75 \times 2 = 150$ ; 175.2
  - $200 \times 60 = 12,000$ ; 11.029.5
- 184.8 m<sup>2</sup>
- 114 mi



## Lesson 11

### Sprint

#### Side A

- |         |          |          |          |
|---------|----------|----------|----------|
| 1. 9    | 12. 0.15 | 23. 40   | 34. 6.4  |
| 2. 0.9  | 13. 0.12 | 24. 4    | 35. 0.49 |
| 3. 0.09 | 14. 1.2  | 25. 0.4  | 36. 3.6  |
| 4. 6    | 15. 12   | 26. 0.3  | 37. 0.25 |
| 5. 0.6  | 16. 25   | 27. 0.18 | 38. 4.8  |
| 6. 0.06 | 17. 2.5  | 28. 3    | 39. 0.63 |
| 7. 4    | 18. 0.25 | 29. 0.12 | 40. 2.4  |
| 8. 0.4  | 19. 28   | 30. 0.42 | 41. 0.54 |
| 9. 0.04 | 20. 2.8  | 31. 5.4  | 42. 3.5  |
| 10. 15  | 21. 0.28 | 32. 0.54 | 43. 0.48 |
| 11. 1.5 | 22. 3.6  | 33. 0.81 | 44. 1.08 |

#### Side B

- |         |          |          |          |
|---------|----------|----------|----------|
| 1. 4    | 12. 0.12 | 23. 30   | 34. 0.64 |
| 2. 0.4  | 13. 0.15 | 24. 3    | 35. 4.9  |
| 3. 0.04 | 14. 1.5  | 25. 0.3  | 36. 0.36 |
| 4. 8    | 15. 15   | 26. 0.4  | 37. 2.5  |
| 5. 0.8  | 16. 16   | 27. 0.24 | 38. 0.48 |
| 6. 0.08 | 17. 1.6  | 28. 4    | 39. 6.3  |
| 7. 9    | 18. 0.16 | 29. 0.16 | 40. 0.24 |
| 8. 0.9  | 19. 32   | 30. 0.56 | 41. 5.4  |
| 9. 0.09 | 20. 3.2  | 31. 7.2  | 42. 0.35 |
| 10. 12  | 21. 0.32 | 32. 0.72 | 43. 0.72 |
| 11. 1.2 | 22. 2.4  | 33. 8.1  | 44. 0.96 |

**Problem Set**

1. a. 1; 32; 32; 44.16  
b. 4; 90; 360; answers will vary; 315.95
2. a. 40.32  
b. 9,904.61  
c. 42,038.64  
d. 241.92
3. a. 752.64  
b. 1,140.99  
c. 5,699.4
4. \$56.05
5. \$3,692.42

**Exit Ticket**

1. 407.61
2. a. 85.82  
b. 3,547.9

**Homework**

1. a. 2; 12; 24; 29.04  
b. 4; 40; 160; answers will vary; 152.81
2. a. 26.39  
b. 1.807.44  
c. 19,675.19  
d. 678.24
3. a. 48.24  
b. 2,246.16  
c. 6,100.9
4. \$42.39
5. a. \$283.50  
b. 65.21 m

## Lesson 12

### Problem Set

- 1; 14; 14; 16.94
  - 2; 300; 600; 747.25
- 12; 14.76
  - 26; 33.8
  - 7; 3.22
  - 13; 11.7
  - 210; 197.68
  - 1,200; 1,409.36
  - 1,400; 1,468.48
  - 90,000; 84,060.3
- 106.95 mi
- Greg will need \$2.08 more.
- 19.95 g

### Exit Ticket

- 1,218.06
  - 833.75

### Homework

- 25; 2; 50; 55.44
  - 6; 300; 1,800; 1,653.10
- 21; 25.83
  - 120; 131.2
  - 8; 13.12
  - 30; 33.48
  - 180; 170.52
  - 4,900; 4,664.89
  - 1,200; 1,266.72
  - 100,000; 95,326.8
- 2,007.5 mi
- \$3,174.75
- \$13.60

## Lesson 13

### Problem Set

- Answer provided.
  - 1,460
  - 920
  - 17.1 ft
  - 6,080 g
  - 200 oz
- Answer provided.
  - 68,000 g
  - 170 cm
  - 80 mL
  - 180.8 oz
  - 82.8 in

### Exit Ticket

- 224 oz
  - 18,200 g

### Homework

- Answer provided.
  - 2555
  - 450
  - 201.6 oz
  - 3,090 g
  - 8,820 in
- Answer provided.
  - 65,000 g
  - 460 cm
  - 100 mL
  - 156.8 oz
  - 130 mm

## Lesson 14

### Problem Set

- Answer provided.
  - 5 gal
  - 9.2
  - 1.578
  - 6.08 kg
  - 0.509 L
- Answer provided.
  - 6 pints
  - 3.78 m
  - 1.478 L
  - 3,900 kg
  - 264.04 km

### Exit Ticket

- 5 weeks
- 4.567 kg

### Homework

- Answer provided.
  - 9
  - 7.6
  - 2.485
  - 3.09 kg
  - 0.205
- Answer provided.
  - 4 pt
  - 5.29 m
  - 2.06 L
  - 1,560 kg
  - 372.06 km

## Lesson 15

### Sprint

#### Side A

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

#### Side B

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

**Problem Set**

1. 11 oz
2. 1,888 bags of peppercorns
3. 117.76 m
4. a. 48 cups of juice  
b. 12 containers

**Exit Ticket**

1. 18,060 m

**Homework**

1. 19.2 cm
2. 11 gal
3. 35.7 m
4. a. 1160 g  
b. 1.16kg

## Lesson 16

### Sprint

#### Side A

- |         |        |            |         |
|---------|--------|------------|---------|
| 1. 3    | 12. 20 | 23. 120    | 34. 30  |
| 2. 43   | 13. 20 | 24. 12     | 35. 40  |
| 3. 430  | 14. 40 | 25. 2,100  | 36. 43  |
| 4. 43   | 15. 20 | 26. 210    | 37. 6   |
| 5. 430  | 16. 20 | 27. 21     | 38. 40  |
| 6. 5    | 17. 24 | 28. 4,200  | 39. 60  |
| 7. 85   | 18. 12 | 29. 420    | 40. 64  |
| 8. 850  | 19. 12 | 30. 42     | 41. 32  |
| 9. 85   | 20. 36 | 31. 32,000 | 42. 23  |
| 10. 850 | 21. 12 | 32. 320    | 43. 240 |
| 11. 60  | 22. 12 | 33. 3,200  | 44. 42  |

#### Side B

- |         |        |            |         |
|---------|--------|------------|---------|
| 1. 2    | 12. 30 | 23. 210    | 34. 20  |
| 2. 42   | 13. 30 | 24. 21     | 35. 30  |
| 3. 420  | 14. 60 | 25. 1,200  | 36. 32  |
| 4. 42   | 15. 30 | 26. 120    | 37. 4   |
| 5. 420  | 16. 30 | 27. 12     | 38. 40  |
| 6. 4    | 17. 24 | 28. 2,400  | 39. 70  |
| 7. 84   | 18. 12 | 29. 240    | 40. 73  |
| 8. 840  | 19. 12 | 30. 24     | 41. 32  |
| 9. 84   | 20. 63 | 31. 23,000 | 42. 23  |
| 10. 840 | 21. 21 | 32. 230    | 43. 240 |
| 11. 90  | 22. 21 | 33. 2,300  | 44. 42  |



**Problem Set**

1.
  - a. 50
  - b. 36
  - c. 120
  - d. 4,500
  - e. 700
  - f. 5,300
2.
  - a. Answer provided
  - b. 40
  - c. 4
  - d. 8,000
  - e. 800
  - f. 80
  - g. 700
  - h. 900
  - i. 90
3.
  - a. 40 m
  - b. 60 m
  - c. 300 m
4.
  - a. Carter; explanations will vary.
  - b. 500

**Exit Ticket**

1.
  - a. 170
  - b. 59
  - c. 300
  - d. 800

**Homework**

1.
  - a. 30
  - b. 45
  - c. 180
  - d. 7,300
  - e. 900
  - f. 680
2.
  - a. Answer provided
  - b. 90
  - c. 9
  - d. 7,000
  - e. 700
  - f. 70
  - g. 800
  - h. 800
  - i. 50
3. 200
4.
  - a. 4
  - b. 16

## Lesson 17

### Problem Set

Estimates may vary.

1.
  - a. Answers provided.
  - b. 900; 30; 30
  - c. 800; 40; 20
  - d. 150; 75; 2
  - e. 250; 50; 5
  - f. 480; 60; 8
  - g. 640; 80; 8
  - h. 800; 100; 8
  - i. 630; 90; 7
  - j. 300; 75; 4
  - k. 640; 80; 8
  - l. 160; 40; 4
  - m. 500; 20; 25
  - n. 540; 90; 6
  - o. 660; 11; 60
2.  $800 \div 40 = 20$ ; answers will vary.
3. No; answers will vary.

### Exit Ticket

Estimates may vary.

1.
  - a. 600; 20; 30
  - b. 900; 30; 30
  - c. 150; 30; 5
  - d. 480; 60; 8

**Homework**

Estimates may vary.

1.
  - a. Answers provided
  - b. 600; 20; 30
  - c. 800; 40; 20
  - d. 500; 50; 10
  - e. 500; 50; 10
  - f. 140; 70; 2
  - g. 480; 80; 6
  - h. 630; 70; 9
  - i. 600; 100; 6
  - j. 300; 30; 10
  - k. 720; 80; 9
  - l. 630; 30; 21
  - m. 810; 90; 9
  - n. 350; 70; 5
  - o. 550; 11; 50
2. \$8
3.  $160 \div 40 = 4$  barrels; answers will vary.

## Lesson 18

### Problem Set

Estimates may vary.

1.
  - a. Answers provided
  - b. 2,700; 30; 90
  - c. 9,000; 30; 300
  - d. 1,500; 50; 30
  - e. 2,400; 60; 40
  - f. 2,100; 70; 30
  - g. 4,900; 70; 70
  - h. 8,000; 80; 100
  - i. 9,000; 90; 100
  - j. 3,600; 60; 60
  - k. 4,800; 80; 60
  - l. 4,500; 90; 50
  - m. 5,400; 90; 60
  - n. 7,200; 90; 80
  - o. 2,800; 20; 140
2. 23 ft; answers will vary.
3.
  - a. 50 MB
  - b. \$28
4. 50 qt
5. 200 hr

### Exit Ticket

Estimates may vary.

1. 6,600; 20; 330  
8,400; 40; 210  
4,000; 50; 80  
4,900; 70; 70

**Homework**

Estimates may vary.

1.
  - a. Answers provided
  - b. 2,000; 20; 100
  - c. 8,000; 40; 200
  - d. 3,600; 60; 60
  - e. 2,800; 70; 40
  - f. 5,400; 90; 60
  - g. 4,900; 70; 70
  - h. 8,100; 81; 100
  - i. 9,000; 90; 100
  - j. 3,000; 50; 60
  - k. 8,100; 90; 90
  - l. 4,200; 60; 70
  - m. 6,300; 70; 90
  - n. 5,000; 50; 100
  - o. 6,000; 30; 200
2. 26
3. 30; 11; 3; 40; answers will vary.

## Lesson 19

### Problem Set

- Answer provided
  - 2 R20; accurate check shown
  - 1 R21; accurate check shown
  - 9; accurate check shown
  - 8 R3; accurate check shown
  - 2 R35; accurate check shown
- 7 R19; explanations may vary.
- 564
- 5

### Exit Ticket

- 3 R13
  - 9 R21

### Homework

- Answer provided
  - 2 R10; accurate check shown
  - 1 R35; accurate check shown
  - 9 R10; accurate check shown
  - 7 R17; accurate check shown
  - 4 R26; accurate check shown
- 256
- 18
- 4

## Lesson 20

### Problem Set

- Answer provided
  - 2 R7
  - 2
  - 2 R20
  - 3 R2
  - 4
- 1 R39; explanations may vary.
- 157
- Answers may vary.
- \$105

### Exit Ticket

- 3 R15
  - 2 R15

### Homework

- Answer provided
  - 4 R5
  - 2 R28
  - 3 R10
  - 3 R4
  - 3 R20
- 7 ft
- 6 full plates with 12 remaining
  - 2 bagels



## Lesson 21

### Problem Set

- Answer provided
  - 2 R14
  - 8 R7
  - 8 R7
  - 8 R61
  - 7 R5
- Answers and explanations may vary.
- 19
- 4
  - 11 more

### Exit Ticket

- 6 R8
  - 5 R2

### Homework

- Answer provided
  - 4 R10
  - 5 R16
  - 7
  - 8
  - 8 R8
- 4
- 8

## Lesson 22

### Problem Set

- Answer provided
  - 22 R26
  - 33 R16
  - 24 R1
  - 15 R14
  - 40 R14
- 13 R35; explanations may vary.
- 10
  - 17; explanations may vary.

### Exit Ticket

- 21 R14
  - 10 R38

### Homework

- Answer provided
  - 32 R5
  - 33 R7
  - 12 R27
  - 19 R22
  - 16 R12
- Explanations may vary.
- Explanations may vary.

## Lesson 23

### Problem Set

- 211 R6
  - 84
  - 213
  - 70 R14
  - 315 R17
  - 70 R14
- \$376
- 5,460
- 58 days

### Exit Ticket

- 435 R18
  - 28 R20

### Homework

- 242 R40
  - 33 R10
  - 238 R27
  - 82 R1
  - 126 R15
  - 93 R55
- 565
- 57

## Lesson 24

### Problem Set

- Answer provided
  - Answer provided
  - 0.6
  - $(2.4 \div 4) \div 10 = 0.6 \div 10 = 0.06$
  - 2.1
  - $(14.7 \div 7) \div 10 = 2.1 \div 10 = 0.21$
  - 0.17
  - $(0.34 \div 2) \div 10 = 1.7 \div 10 = 0.17$
  - 0.05
  - $(0.45 \div 9) \div 10 = 0.05 \div 10 = 0.005$
  - 1.15
  - $(34.5 \div 3) \div 100 = 11.5 \div 100 = 0.115$
- 0.93; explanations may vary.
  - 0.017; explanations may vary.
  - 4.2; explanations may vary.
  - 3.4; explanations may vary.
- About 122 lb.
- 1.32 kg

### Exit Ticket

- 9.1
  - 0.091
  - 0.91
- 0.081; explanations may vary.

**Homework**

1.
  - a. Answer provided
  - b. Answer provided
  - c. 0.3
  - d.  $(2.4 \div 80) \div 10 = 0.3 \div 10 = 0.03$
  - e. 7.3
  - f.  $(14.6 \div 20) \div 10 = 7.3 \div 10 = 0.73$
  - g. 0.2
  - h.  $(80 \div 4) \div 100 = 20 \div 100 = 0.2$
  - i. 0.08
  - j.  $(0.56 \div 7) \div 10 = 0.08 \div 10 = 0.008$
  - k. 1.05
  - l.  $(9.45 \div 9) \div 100 = 1.05 \div 100 = 0.0105$
2.
  - a. 8.2; explanations may vary.
  - b. 0.5; explanations may vary.
  - c. 4.8; explanations may vary.
  - d. 0.66; explanations may vary.
3.
  - a. 2.13 mi; explanations may vary.
  - b. 29.82 mi
4. 70 mL

## Lesson 25

### Problem Set

- $\approx 0.04$
  - $\approx 6$
  - $\approx 0.2$
  - $\approx 3$
  - $\approx 1$
- $\approx 0.2$
  - $\approx 20$
  - $\approx 2$
- About 13 miles
  - About 40 days
- About \$3.00
  - No

### Exit Ticket

- $\approx 0.08$
  - $\approx 2$
  - $\approx 0.2$

### Homework

- $\approx 0.07$
  - $\approx 0.6$
  - $\approx 0.40$
  - $\approx 2$
  - $\approx 0.12$
- $\approx 0.2$
  - $\approx 20$
  - $\approx 2$
- $\approx \$0.75$ ; answers may vary.
- $\approx 0.5$  gal; answers may vary.
  - $\approx 3.5$  gal
  - $\approx 40$  days

## Lesson 26

### Problem Set

- No;  $156 \div 24 = 6.5$ ,  $102 \div 15 = 6.8$
  - Answers will vary.
- All answers should include a multiplication sentence to check division.
  - 2.78
  - 2.73
  - 1.11
  - 0.53
  - 4.8
  - 0.48
  - 5.1
  - 0.51
- 2.55 g
- 0.25 m
- 80.25 m

### Exit Ticket

- All answers should include an estimate and check.
  - 2.15
  - 0.23
- Answers will vary.

### Homework

- Answers will vary.
- All answers should include a multiplication sentence to check division.
  - 3.45
  - 5.12
  - 2.03
  - 0.42
- 32.55
  - 1.23
- 12.1; answers will vary; 1.21; answers will vary.
  - 0.53; answers will vary; 5.3; answers will vary.
- 14.2 ft
  - 3.35 ft taller

## Lesson 27

### Problem Set

- All answers should include a multiplication sentence to check division.
  - 0.35
  - 1.5
  - 0.5
  - 1.5
  - 1.5
  - 1.04
  - 0.36
  - 0.31
  - 0.175
- 1.27 kg
- 34.25 in
- \$33.75
- \$0.81

### Exit Ticket

- 0.875
  - 1.05

### Homework

- All answers should include a multiplication sentence to check division.
  - 0.25
  - 2.04
  - 0.5
  - 8.26
  - 20.06
  - 16.8
- 0.85 L; 850 mL
- 6.75
- 24.15 L



## Lesson 28

### Sprint

#### Side A

- |         |         |           |           |
|---------|---------|-----------|-----------|
| 1. 0.6  | 12. 4   | 23. 0.5   | 34. 0.2   |
| 2. 0.3  | 13. 0.4 | 24. 0.05  | 35. 0.8   |
| 3. 0.1  | 14. 0.3 | 25. 0.09  | 36. 0.08  |
| 4. 0.8  | 15. 0.2 | 26. 0.05  | 37. 0.012 |
| 5. 0.2  | 16. 0.6 | 27. 0.005 | 38. 0.012 |
| 6. 0.4  | 17. 5   | 28. 0.009 | 39. 0.011 |
| 7. 0.4  | 18. 0.5 | 29. 0.004 | 40. 0.034 |
| 8. 0.2  | 19. 0.3 | 30. 0.007 | 41. 0.034 |
| 9. 0.1  | 20. 0.6 | 31. 0.006 | 42. 0.064 |
| 10. 3   | 21. 0.8 | 32. 0.007 | 43. 0.077 |
| 11. 0.3 | 22. 0.4 | 33. 0.2   | 44. 0.058 |

#### Side B

- |         |         |           |           |
|---------|---------|-----------|-----------|
| 1. 0.4  | 12. 6   | 23. 0.5   | 34. 0.2   |
| 2. 0.2  | 13. 0.6 | 24. 0.05  | 35. 0.9   |
| 3. 0.1  | 14. 0.4 | 25. 0.07  | 36. 0.06  |
| 4. 0.8  | 15. 0.3 | 26. 0.05  | 37. 0.012 |
| 5. 0.4  | 16. 0.2 | 27. 0.005 | 38. 0.012 |
| 6. 0.2  | 17. 3   | 28. 0.007 | 39. 0.013 |
| 7. 0.9  | 18. 0.3 | 29. 0.007 | 40. 0.046 |
| 8. 0.3  | 19. 0.5 | 30. 0.006 | 41. 0.044 |
| 9. 0.1  | 20. 0.7 | 31. 0.007 | 42. 0.074 |
| 10. 3   | 21. 0.9 | 32. 0.009 | 43. 0.087 |
| 11. 0.3 | 22. 0.6 | 33. 0.2   | 44. 0.068 |

**Problem Set**

1. 43.5 hr
2. \$16.25
3. 6.75 in
4. 321.25 kg

**Exit Ticket**

1. \$23.20

**Homework**

1. 9
2. 2.22 oz
3. 0.67 kg
4. \$5.75
5. 38

## Lesson 29

### Problem Set

1. 903 kg
2. 6 oz; explanations will vary.
3. 39.12 m
4. 10,800 m<sup>2</sup>

### Exit Ticket

\$618

### Homework

1. 13
2. \$178
3. 64.5 m
4. \$3.50
5. 6.25 k<sup>2</sup>