Answer Key

GRADE 5 • MODULE 2

Multi-Digit Whole Number and Decimal Fraction Operations

Lesson 1

Problem Set

1. a. 46; 460
   b. 46 hundreds; 4,600
   c. Ones; 164
   d. Thousands; 164,000
   e. 331; 3; thousands; 993,000
   f. 5; 6; ten thousands; 300,000
2. a. False; answers will vary.
   b. False; answers will vary.
   c. True; answers will vary.
   d. True; answers will vary.
   e. False; answers will vary.

3. a. Answers provided
   b. 135; 1,350; 13,500; 135,000
   c. 200; 2,000; 20,000; 200,000
   d. 1,436; 143,600; 1,436,000; 143,600,000
4. Answers will vary.
5. 36,000,000 gal
6. $9,900

Exit Ticket

1. a. 38,000
   b. 300,000
   c. 75,000
2. Answers will vary.

Homework

1. a. 129; 1,290
   b. 129; 12,900
   c. Hundreds; 16,600
   d. 44; 4; ten thousands; 1,760,000
   e. 8; 5; ten thousands; 400,000
2. a. True; answers will vary.
   b. False; answers will vary.
   c. True; answers will vary.
   d. False; answers will vary.

3. a. Answers provided
   b. 400; 4,000; 400,000; 400,000
   c. 1,911; 191,100; 1,911,000; 19,110,000
4. 600 in^2
5. 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 × 400; 11,200,000

   c. 9,000 × 60; 540,000

   d. 900 × 600; 540,000

   e. 40,000 × 500; 20,000,000

3. 2,146 × 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 × 100; 70,000

   b. 3,000 × 8,000; 24,000,000

   c. 400 × 9,000; 3,600,000

   d. 9,000 × 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 × 200; 16,000,000

   c. 10,000 × 40; 400,000

   d. 1,000 × 400; 400,000

   e. 90,000 × 900; 81,000,000

3. 8,146 × 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

1. a. Accurate model drawn; (8 + 7) × 2

    b. Accurate model drawn; 4 × (14 + 26)

    c. Accurate model drawn; 3 × (37.5 − 24.5)

    d. Accurate model drawn; (3 × 16) + (2 × 9)

    e. Accurate model drawn; (4 × 25) − (3 × 25)

    f. Accurate model drawn; 3 × (33 + 27)

2. a. Answers will vary; 360

    b. Answers will vary; 550

    c. Answers will vary; 2,300

    d. Answers will vary; 76

3. a. >; answers will vary.

    b. <; answers will vary.

    c. =; answers will vary.

4. Model drawn correctly; (7 × 15) + (38 × 15)

5. MeiLing's is equivalent; answers will vary.

6. a. 24 × (8 + 12)

    b. 2 × 24 × (8 + 12)

    c. 1,440

Exit Ticket

1. a. Model drawn correctly; 8 × 47 − 7 × 47

    b. Model drawn correctly; 6 × (12 + 8)

2. >

Homework

1. a. Accurate model drawn; (21 + 4) × 2

    b. Accurate model drawn; 5 × (7 + 23)

    c. Accurate model drawn; 2 × (49.5 − 37.5)

    d. Accurate model drawn; 3 × 15 + 4 × 2

    e. Accurate model drawn; 9 × 37 − 8 × 37

    f. Accurate model drawn; 3 × (45 + 55)

2. a. Answers will vary; 160

    b. Answers will vary; 220

    c. Answers will vary; 2,600

    d. Answers will vary; 130

3. a. >; answers will vary.

    b. >; answers will vary.

4. a. No; answers will vary.

    b. (14 + 12) × (8 + 12); 256

Lesson 4

Problem Set

1. a. $(15 - 1) \times 29$ and $(10 \times 29) - (6 \times 29)$

    b. $(38 + 40) \times (38 + 5)$ and $45 \times (40 + 2)$

    c. $(74 \times 5) + (74 \times 9)$

2. a. 19; 20; 1; 500; 25; 475

    b. 11; 10; 1; 10; 1; 240; 24; 264

    c. 79; 80; 80; 1; 1,120; 14; 1,106

    d. 21; 20; 1; 20; 1; 1500; 75; 1,575

3. a. Fifteens; fifteens; fifteen; 15; 15; 300; 15; 285

    b. Fifteens; fifteens; fifteens; 15; 15; 150; 60; 210

    c. Twenty-fives; twenty-fives; twenty-fives; 25; 25; 250; 50; 300

    d. Seventeens; seventeens; seventeens; 17; 17; 340; 34; 306

4. Answers will vary.

5. a. 1,515

    b. 1,782

6. Answers will vary.

7. a. Answers will vary; $(174 + 126) \times 29$

    b. Answers will vary; 8,700

Exit Ticket

1. a. 49; 50; 1; 550; 11; 539

    b. 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 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

    b. 9,114

2. a. 5,172

    b. 2,829

    c. 9,984

3. $7,248

4. 508.2 kg

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

engage^ny

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

    b. 22,680

2. a. 69,736

    b. 90,052

    c. 30,940

    d. 35,008

3. $3,584

4. a. $2,375

    b. $19 \times 125 + 4 \times 125 = \$2,875$

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

1. a. 69,864
    b. 280,000; 246,264
    c. 280,000; 326,638
    d. 400,000; 396,237
    e. 2,800,000; 2,297,312
    f. 2,800,000; 3,252,990
    g. 1,000,000; 1,099,750
    h. 2,400,000; 2,414,412
    i. 3,100,000; 3,064,635

2. 776 L 475 mL; answers will vary.
3. $71,713
4. a. No; answers will vary.
    b. 4,410
    c. 9

Exit Ticket

1. a. 117,728; 300; 400; 120,000
    b. 1,138,018; 2,800; 400; 1,120,000

Homework

1. a. 46,488
    b. 210,000; 219,185
    c. 240,000; 272,636
    d. 210,000; 210,755
    e. 2,520,000; 2,550,048
    f. 1,500,000; 1,604,564
    g. 1,200,000; 1,317,520
    h. 1,500,000; 1,509,514
    i. 1,800,000; 1,550,416

2. No; answers will vary.
3. 600,000; answers will vary.

Lesson 9

Problem Set

1. $1,518,720

2. a. 26,104

   b. Leah; $1,996

3. $26 \times 1,334 + 19 \times 749 = \$48,915$

4. $10,822

5. $2 \times (2 \times 9 + 2 \times 6) \times 12 \times 3 = 2{,}160$ min

6. a. 3,874

   b. 46,488

Exit Ticket

1. a. $103.50

   b. $89.70

   c. $193.20

   d. $15 \times (30 + 26) = 840$

Homework

1. 1,529

2. a. 4,832 yd

   b. 62,816 yd

3. $13,608

4. $40{,}500 \text{ cm}^2$

5. a. $4{,}100 \text{ yd}^2$

   b. No; length is too short; answers will vary.

   c. $249,600

Lesson 10

Problem Set

1. a. 20; 2; 40; 52.8

    b. 3; 30; 90; 102.3

2. a. 3; 50; 150; 150.4

    b. 3, 90, 270; 300.8

    c. 6, 40, 240; 277.2

    d. 10, 20, 200; 248.2

    e. 8, 30, 240; 278.8

    f. 200, 20, 4000; 2726.8

3. Answers will vary.

4. 4.1 m

Exit Ticket

1. a. 697.2

    b. 93.5

2. 1,697.5; answers will vary.

Homework

1. a. 50; 1; 50; 63.6

    b. 2; 80; 160; 172.2

2. a.   4; 30; 120; 142.8

    b.   70; 6; 420; 377

    c. $3 \times 20 = 60$; 52.8

    d. $15 \times 20 = 300$; 265.2

    e. $75 \times 2 = 150$; 175.2

    f. $200 \times 60 = 12{,}000$; 11.029.5

3. 184.8 m^2

4. 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

engage^{ny}

Lesson 12

Problem Set

1. a. 1; 14; 14; 16.94

    b. 2; 300; 600; 747.25

2. a. 12; 14.76

    b. 26; 33.8

    c. 7; 3.22

    d. 13; 11.7

    e. 210; 197.68

    f. 1,200; 1,409.36

    g. 1,400; 1,468.48

    h. 90,000; 84,060.3

3. 106.95 mi

4. Greg will need $2.08 more.

5. 19.95 g

Exit Ticket

1. a. 1,218.06

    b. 833.75

Homework

1. a. 25; 2; 50; 55.44

    b. 6; 300; 1,800; 1,653.10

2. a. 21; 25.83

    b. 120; 131.2

    c. 8; 13.12

    d. 30; 33.48

    e. 180; 170.52

    f. 4,900; 4,664.89

    g. 1,200; 1,266.72

    h. 100,000; 95,326.8

3. 2,007.5 mi

4. $3,174.75

5. $13.60

Lesson 13

Problem Set

1. a. Answer provided.
    b. 1,460
    c. 920
    d. 17. 1 ft
    e. 6,080 g
    f. 200 oz

2. a. Answer provided.
    b. 68,000 g
    c. 170 cm
    d. 80 mL
    e. 180.8 oz
    f. 82.8 in

Exit Ticket

1. a. 224 oz
    b. 18,200 g

Homework

1. a. Answer provided.
    b. 2555
    c. 450
    d. 201.6 oz
    e. 3,090 g
    f. 8,820 in

2. a. Answer provided.
    b. 65,000 g
    c. 460 cm
    d. 100 mL
    e. 156.8 oz
    f. 130 mm

Lesson 14

Problem Set

1. a. Answer provided.
    b. 5 gal
    c. 9.2
    d. 1.578
    e. 6.08 kg
    f. 0.509 L

2. a. Answer provided.
    b. 6 pints
    c. 3.78 m
    d. 1.478 L
    e. 3,900 kg
    f. 264.04 km

Exit Ticket

1. 5 weeks
2. 4.567 kg

Homework

1. a. Answer provided.
    b. 9
    c. 7.6
    d. 2.485
    e. 3.09 kg
    f. 0.205

2. a. Answer provided.
    b. 4 pt
    c. 5.29 m
    d. 2.06 L
    e. 1,560 kg
    f. 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

engage^ny

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 ÷ 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

1. a. Answer provided

    b. 2 R20; accurate check shown

    c. 1 R21; accurate check shown

    d. 9; accurate check shown

    e. 8 R3; accurate check shown

    f. 2 R35; accurate check shown

2. 7 R19; explanations may vary.

3. 564

4. 5

Exit Ticket

1. a. 3 R13

    b. 9 R21

Homework

1. a. Answer provided

    b. 2 R10; accurate check shown

    c. 1 R35; accurate check shown

    d. 9 R10; accurate check shown

    e. 7 R17; accurate check shown

    f. 4 R26; accurate check shown

2. 256

3. 18

4. 4

Lesson 20

Problem Set

1. a. Answer provided
    b. 2 R7
    c. 2
    d. 2 R20
    e. 3 R2
    f. 4
2. 1 R39; explanations may vary.
3. 157
4. Answers may vary.
5. $105

Exit Ticket

1. a. 3 R15
    b. 2 R15

Homework

1. a. Answer provided
    b. 4 R5
    c. 2 R28
    d. 3 R10
    e. 3 R4
    f. 3 R20
2. 7 ft
3. a. 6 full plates with 12 remaining
    b. 2 bagels

Lesson 21

Problem Set

1. a. Answer provided
   b. 2 R14
   c. 8 R7
   d. 8 R7
   e. 8 R61
   f. 7 R5
2. Answers and explanations may vary.
3. 19
4. a. 4
   b. 11 more

Exit Ticket

1. a. 6 R8
   b. 5 R2

Homework

1. a. Answer provided
   b. 4 R10
   c. 5 R16
   d. 7
   e. 8
   f. 8 R8
2. 4
3. 8

Lesson 22

Problem Set

1. a. Answer provided
    b. 22 R26
    c. 33 R16
    d. 24 R1
    e. 15 R14
    f. 40 R14

2. 13 R35; explanations may vary.
3. a. 10
    b. 17; explanations may vary.

Exit Ticket

1. a. 21 R14
    b. 10 R38

Homework

1. a. Answer provided
    b. 32 R5
    c. 33 R7
    d. 12 R27
    e. 19 R22
    f. 16 R12

2. Explanations may vary.
3. Explanations may vary.

Lesson 23

Problem Set

1. a. 211 R6
    b. 84
    c. 213
    d. 70 R14
    e. 315 R17
    f. 70 R14
2. $376
3. 5,460
4. 58 days

Exit Ticket

1. a. 435 R18
    b. 28 R20

Homework

1. a. 242 R40
    b. 33 R10
    c. 238 R27
    d. 82 R1
    e. 126 R15
    f. 93 R55
2. 565
3. 57

Lesson 24

Problem Set

1. a. Answer provided
    b. Answer provided
    c. 0.6
    d. $(2.4 ÷ 4) ÷ 10 = 0.6 ÷ 10 = 0.06$
    e. 2.1
    f. $(14.7 ÷ 7) ÷ 10 = 2.1 ÷ 10 = 0.21$
    g. 0.17
    h. $(0.34 ÷ 2) ÷ 10 = 1.7 ÷ 10 = 0.17$
    i. 0.05
    j. $(0.45 ÷ 9) ÷ 10 = 0.05 ÷ 10 = 0.005$
    k. 1.15
    l. $(34.5 ÷ 3) ÷ 100 = 11.5 ÷ 100 = 0.115$

2. a. 0.93; explanations may vary.
    b. 0.017; explanations may vary.
    c. 4.2; explanations may vary.
    d. 3.4; explanations may vary.

3. About 122 lb.

4. 1.32 kg

Exit Ticket

1. a. 9.1
    b. 0.091
    c. 0.91

2. 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

1. a. ≈ 0.04

    b. ≈ 6

    c. ≈ 0.2

    d. ≈ 3

    e. ≈ 1

2. a. ≈ 0.2

    b. ≈ 20

    c. ≈ 2

3. a. About 13 miles

    b. About 40 days

4. a. About $3.00

    b. No

Exit Ticket

1. a. ≈ 0.08

    b. ≈ 2

    c. ≈ 0.2

Homework

1. a. ≈ 0.07

    b. ≈ 0.6

    c. ≈ 0.40

    d. ≈ 2

    e. ≈ 0.12

2. a. ≈ 0.2

    b. ≈ 20

    c. ≈ 2

3. ≈ $0.75; answers may vary.

4. a. ≈ 0.5 gal; answers may vary.

    b. ≈ 3.5 gal

    c. ≈ 40 days

Lesson 26

Problem Set

1. a. No; $156 \div 24 = 6.5$, $102 \div 15 = 6.8$

   b. Answers will vary.

2. All answers should include a multiplication sentence to check division.

   a. 2.78

   b. 2.73

   c. 1.11

   d. 0.53

   e. 4.8

   f. 0.48

   g. 5.1

   h. 0.51

3. 2.55 g

4. 0.25 m

5. 80.25 m

Exit Ticket

1. All answers should include an estimate and check.

   a. 2.15

   b. 0.23

2. Answers will vary.

Homework

1. Answers will vary.

2. All answers should include a multiplication sentence to check division.

   a. 3.45

   b. 5.12

   c. 2.03

   d. 0.42

3. a. 32.55

   b. 1.23

4. a. 12.1; answers will vary; 1.21; answers will vary.

   b. 0.53; answers will vary; 5.3; answers will vary.

5. a. 14.2 ft

   b. 3.35 ft taller

Lesson 27

Problem Set

1. All answers should include a multiplication
   sentence to check division.
   a. 0.35
   b. 1.5
   c. 0.5
   d. 1.5
   e. 1.5
   f. 1.04
   g. 0.36
   h. 0.31
   i. 0.175

2. 1.27 kg
3. 34.25 in
4. $33.75
5. $0.81

Exit Ticket

1. a. 0.875
   b. 1.05

Homework

1. All answers should include a multiplication
   sentence to check division.
   a. 0.25
   b. 2.04
   c. 0.5
   d. 8.26
   e. 20.06
   f. 16.8

2. 0.85 L; 850 mL
3. 6.75
4. 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^2

Exit Ticket

$618

Homework

1. 13

2. $178

3. 64.5 m

4. $3.50

5. 6.25 k^2