Answer Key

GRADE 5 • MODULE 1

Place Value and Decimal Fractions

Lesson 1

Sprint

Side A

1.	120	12.	920	23.	340	34.	560
2.	140	13.	180	24.	1,340	35.	4,560
3.	150	14.	190	25.	2,340	36.	5,560
4.	170	15.	200	26.	3,340	37.	9,500
5.	810	16.	300	27.	8,340	38.	9,500
6.	810	17.	400	28.	8,340	39.	160
7.	210	18.	800	29.	450	40.	600
8.	220	19.	800	30.	1,450	41.	4,930
9.	230	20.	500	31.	2,450	42.	840
10.	290	21.	900	32.	3,450	43.	960
11.	920	22.	700	33.	9,450	44.	5,800

Side B

1.	130	12.	830	23.	430	34.	650
2.	140	13.	280	24.	1,430	35.	4,650
3.	150	14.	290	25.	2,430	36.	5,650
4.	190	15.	300	26.	3,430	37.	9,600
5.	910	16.	400	27.	7,430	38.	9,600
6.	910	17.	500	28.	7,430	39.	170
7.	310	18.	900	29.	540	40.	700
8.	320	19.	900	30.	1,540	41.	5,820
9.	330	20.	200	31.	2,540	42.	730
10.	380	21.	600	32.	3,540	43.	980
11.	830	22.	800	33.	8,540	44.	4,700

Problem Set

1. a. Answer provided

   b. 345.2

   c. 3452

   d. Explanations will vary.

2. a. Answer provided

   b. 3.45

   c. .345

   d. Explanations will vary.

3. 7,234,000; explanations will vary.

4. 320.04

   a. $3200.4 \div 10 = 320.04$; explanations will vary.

5. 9.5 cm; explanations will vary.

Exit Ticket

1. a. 667.1

   b. 0.684

Homework

1. a. Answer provided

   b. 728.1

   c. 9254

   d. Explanations will vary.

2. a. Answer provided

   b. 6.78

   c. 0.067

   d. Explanations will vary.

3. 8,912,000

4. 2800.3

   a. $28.003 \times 100 = 2800.3$; explanations will vary.

5. 251 m; explanations will vary.

Lesson 2

Problem Set

1. a. 540,000

    b. 5,400

    c. 87

    d. 0.87

    e. 13

    f. 0.013

    g. 3,120

    h. 40.312

2. a. 193,400

    b. 1,934,000

    c. 19,340,000

    d. Explanations will vary.

3. a. 15.2

    b. 1.52

    c. 0.152

    d. Explanations will vary.

4. Explanations will vary; $\frac{20}{100} = 0.20$, $\frac{2}{1000} = 0.002$

5. 320,000,000 = 10 × 32,000,000; explanations will vary.

Exit Ticket

1. a. 321

    b. 363.21

2. a. 455,000

    b. 0.455

Homework

1. a. 360,000

    b. 3,600

    c. 43

    d. 0.43

    e. 240

    f. 0.024

    g. 4,540

    h. 30.454

2. a. 145,600

    b. 1,456,000

    c. 14,560,000

    d. Explanations will vary.

3. 0.165

    0.0165

    Explanations will vary.

4. No; $0.3 \times 100 = 30$; explanations will vary.

5. $1,700,000 \div 10 = 170,000 \text{ km}^2$; explanations will vary.

Lesson 3

Sprint

Side A

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

Side B

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

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Module 1:   Place Value and Decimal Fractions

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Problem Set

1. a. 10^4
    b. 10^3
    c. 10^2
    d. 10^4
    e. 10^6
    f. 10^6
2. a. 9000
    b. 390,000
    c. 72
    d. 7,200
    e. 4025
    f. 402,500
    g. 0.725
    h. 0.072
3. Explanations will vary.

4. Explanations will vary.
5. a. 3; 300; 3000
    b. 650; 0.065
    c. 94,300; 943; 0.943
    d. 999,000; 9,990,000; 99,900,000
    e. 0.075; 7,500,000; 750,000,000
    f. Explanations will vary.
    g. Explanations will vary.
5. a. Explanations will vary.
    b. Explanations will vary.

Exit Ticket

1. a. 10^3; $10 \times 10 \times 10$
    b. 10^4; $10 \times 10 \times 10 \times 10$
2. a. 300
    b. 21,600
    c. 0.8
    d. 7.542

Homework

1. a. 10^3

    b. 10^2

    c. 10^5

    d. 10^3

    e. 10^6

    f. 10^5

2. a. 4,000

    b. 640,000

    c. 53

    d. 5,300

    e. 6,072

    f. 607,200

    g. 0.948

    h. 0.094

3. a. 2; 200; 2000

    b. 340; 0.034

    c. 85,700; 857; 0.857

    d. 444,000; 4,440,000; 44,400,000

    e. 0.095; 9,500,000; 950,000,000

4. Answers will vary; $10^4 = 10 \times 10 \times 10 \times 10 = 10,000$

5. a. Answers will vary.

    b. $247 \div 10^3 = 0.247$; $247 \times 10^3 = 247,000$

Lesson 4

Problem Set

1. a. Answer provided.

    b. 1.05; $105 \div 10^2 = 1.05$

    c. 1.68; 168; $1.68 \times 10^2 = 168$

    d. 80; 0.8; $80 \div 10^2 = 0.8$

    e. 9.2; 920; $9.2 \times 10^2 = 920$

    f. 4; 0.04; $4 \div 10^2 = 0.04$

    g. a, c, e

2. a. 3; 3,000; $3 \times 10^3 = 3,000$

    b. 1.2; 1,200; $1.2 \times 10^3 = 3,000$

    c. 1,020; 1.02; $1,020 \div 10^3 = 1.02$

    d. 97; 0.097; $97 \div 10^3 = 0.097$

    e. 7.28; 7,280; $7.28 \times 10^3 = 7,280$

    f. 4; 0.004; $4 \div 10^3 = 0.004$

    g. c, d, f

3. a. 3512

    b. 0.08; $8 \div 10^2$

    c. 0.042; $42 \div 10^3$

    d. 50; $.05 \times 10^3$

    e. 0.2; 0.002×10^2

4. 4.75 m = 4,750 mm; $475 \times 10^3 = 4,750$

5. 1 cm = 0.01 m; $1 \div 102 = 0.01$

6. Explanations will vary.

Exit Ticket

1. f. 10^2; 200

    g. 10^3; 0.04

2. a. 390 cm

    b. 0.04 m

Homework

1. a. Answer provided.

    b. 108; 1.08; $108 \div 10^2$

    c. 2.49; 249; 2.49×10^2

    d. 50; 0.50; $50 \div 10^2$

    e. 6.3; 630; 6.3×10^2

    f. 7; 0.07; $7 \div 10^2$

    g. b, d, f

2. a. 4; 4000; 4×10^3

    b. 1.7; 1700; 1.7×10^3

    c. 1050; 1.050; $1050 \div 10^3$

    d. 65; 0.065; $65 \div 10^3$

    e. 4.92; 4920; 4.92×10^3

    f. 3; .003; $3 \div 10^3$

    g. a, b, c

3. a. 2638; answer provided.

    b. 0.07; $7 \div 10^2$

    c. 0.039; $39 \div 10^3$

    d. 80; 0.08×10^3

    e. 0.5; 0.005×10^2

4. 1.49 m = 1490 mm; $1.49 \div 10^3$

5. 2 cm = 0.02 m; $2 \div 10^2$

6. 77 mm = 0.077 m; $77 \div 10^3$

Lesson 5

Sprint

Side A

1.	623	12.	300	23.	4,100	34.	91.9
2.	6,230	13.	0.2	24.	7,600	35.	1,820
3.	62,300	14.	2	25.	10	36.	14,700
4.	736	15.	20	26.	70	37.	202.1
5.	7,360	16.	0.08	27.	7.2	38.	1,721
6.	73,600	17.	0.8	28.	8.02	39.	64
7.	6	18.	8	29.	19	40.	82
8.	0.6	19.	3.2	30.	7,412	41.	96
9.	0.06	20.	6.7	31.	680	42.	39
10.	3	21.	91	32.	49.01	43.	124.8
11.	30	22.	74	33.	1,607	44.	564.8

Side B

1.	461	12.	900	23.	5,200	34.	81.8
2.	4,610	13.	0.4	24.	8,700	35.	2,930
3.	46,100	14.	4	25.	10	36.	25,800
4.	892	15.	40	26.	80	37.	303.2
5.	8,920	16.	0.07	27.	0.83	38.	2,831
6.	89,200	17.	0.7	28.	9.03	39.	42
7.	3	18.	7	29.	17	40.	66
8.	0.3	19.	4.5	30.	8,523	41.	93
9.	0.03	20.	7.8	31.	790	42.	36
10.	9	21.	28	32.	58.02	43.	84.4
11.	90	22.	19	33.	2,708	44.	524.4

Problem Set

1. a. Answer provided.

    b. 0.024

    c. 1.324

    d. 0.608

    e. 600.008

    f. 0.046

    g. 3.946

    h. 200.904

2. a. 5 thousandths

    b. Eleven and thirty-seven thousandths

    c. Four hundred three and six hundred eight thousandths

3. a. Answer provided.

    b. $2 \times \frac{1}{10} + 4 \times \frac{1}{100} + 9 \times \frac{1}{1000}$

    c. $5 \times 10 + 7 \times 1 + 2 \times \frac{1}{10} + 8 \times \frac{1}{100} + 1 \times \frac{1}{1000}$

4. a. 74.692

    b. 530.809

    c. 4,207.034

5. Both of them; explanations will vary.

Exit Ticket

1. 0.009

2. $\frac{29}{1000}$

3. Twenty-four and three hundred fifty-seven thousandths

    a. $2 \times 10 + 4 \times 1 + 3 \times 0.1 + 5 \times 0.01 + 7 \times 0.001$

    b. 2 tens 4 ones 3 tenths 5 hundredths 7 thousandths

Homework

1. a. Answer provided.

   b. 0.035

   c. 9.235

   d. 800.005

   e. 0.008

   f. 0.028

   g. 7.528

   h. 300.502

2. a. Eight thousandths

   b. Fifteen and sixty-two thousandths

   c. Six hundred seven and four hundred nine thousandths

3. a. Answer provided.

   b. $3 \times 0.1 + 6 \times 0.01 + 2 \times 0.001$

   c. $4 \times 10 + 9 \times 1 + 5 \times 0.1 + 6 \times 0.01 + 4 \times 0.001$

4. a. 35.276

   b. 920.307

   c. 5,408.065

5. a. $4 \times 1 + 8 \times \frac{1}{10} + 7 \times \frac{1}{100} + 5 \times \frac{1}{1000}$

   b. $3 \times 1 + 1 \times \frac{1}{10} + 2 \times \frac{1}{100} + 5 \times \frac{1}{1000}$

6. Nancy: $4 \times 100 + 1 \times 10 + 2 \times 1 + 6 \times \frac{1}{10} + 3 \times \frac{1}{100} + 8 \times \frac{1}{1000}$

   Charles: $4 \times 100 + 1 \times 10 + 2 \times 1 + 6 \times 0.1 + 3 \times 0.01 + 8 \times 0.001$

Lesson 6

Problem Set

1. <; >; completed place value chart; explanations will vary.

2. a. <
   b. =
   c. =
   d. =
   e. >
   f. =
   g. >
   h. <
   i. <
   j. <
   k. <

3. a. 3.04; 3.049; 3.05; 3.059
   b. 182.025; 182.05; 182.105; 182.205

4. a. 7.68; 7.608; 7.6; 7.068
   b. 439.612; 439.261; 439.216; 439.126

5. No; answers will vary; Angel has $\frac{500}{1000}$ L, but Lance has $\frac{485}{1000}$ L.

6. Dr. Hong prescribes the most; Dr. Evans prescribes the least; explanations will vary.

Exit Ticket

1. <
2. <

3. 76.343; 76.342; 76.332; 76.232

Homework

1. a. <
   b. =
   c. =
   d. <
   e. >
   f. =
   g. <
   h. >
   i. <
   j. <

2. a. 8.008; 8.08; 8.081; 8.09
   b. 14.200; 14.204; 14.210; 14.240

3. a. 8.58; 8.508; 7.5; 7.058
   b. 439.612; 439.261; 439.216; 439.126

4. James' hand was bigger; explanations will vary.

5. Salvador's plane traveled the farthest distance; Jennifer's plane traveled the shortest distance; explanations will vary.

1

Lesson 7

Sprint

Side A

1.	5	12.	0.35	23.	8.55	34.	0.085
2.	0.5	13.	0.75	24.	2.85	35.	0.095
3.	0.005	14.	0.15	25.	0.035	36.	26.5
4.	15	15.	0.015	26.	0.135	37.	7.85
5.	1.5	16.	0.025	27.	0.375	38.	1.265
6.	2.5	17.	0.035	28.	85	39.	29.5
7.	3.5	18.	0.075	29.	95	40.	9.95
8.	7.5	19.	6.5	30.	8.5	41.	7.95
9.	1.5	20.	16.5	31.	9.5	42.	1.595
10.	0.15	21.	38.5	32.	0.85	43.	1.795
11.	0.25	22.	0.45	33.	0.95	44.	3.995

Side B

1.	15	12.	0.25	23.	0.75	34.	0.95
2.	1.5	13.	0.35	24.	4.75	35.	0.085
3.	0.15	14.	0.65	25.	2.35	36.	0.095
4.	0.015	15.	0.15	26.	0.025	37.	36.5
5.	5	16.	0.015	27.	0.125	38.	6.85
6.	0.5	17.	0.025	28.	0.475	39.	1.465
7.	1.5	18.	0.035	29.	85	40.	39.5
8.	2.5	19.	0.065	30.	95	41.	9.95
9.	6.5	20.	7.5	31.	8.5	42.	6.95
10.	1.5	21.	17.5	32.	9.5	43.	1.295
11.	0.15	22.	47.5	33.	0.85	44.	6.995

EUREKA MATH™

Module 1:   Place Value and Decimal Fractions

Problem Set

1. 3 ones + 1 tenth; 31 tenths; 310 hundredths
   a. 310 hundredths = 3.1
   b. 31 tenths = 3.1
   c. 0 tens

2. 11 tens + 5 ones + 3 tenths + 7 hundredths + 6 thousandths; 115 ones + 3 tenths + 7 hundredths + 6 thousandths; 1,153 tenths + 7 hundredths + 6 thousandths; 11,537 hundredths + 6 thousandths
   a. 11,538 hundredths = 115.38
   b. 115 ones = 115
   c. 12 tens = 120

3. 9 tenths + 9 hundredths + 4 thousandths; 99 hundredths + 4 thousandths; 944 thousandths
   a. 99 hundredths = 0.99
   b. 10 tenths = 1.0
   c. 1 one = 1
   d. 0 tens = 0

4. 2.14 m

5. Explanations will vary.

Exit Ticket

1. a. 855 hundredths = 8.55
   b. 1 ten = 10

Homework

1. a. 430 hundredths = 4.3
   b. 43 tenths = 4.3
   c. 4 ones = 4

2. a. 22,529 hundredths = 225.29
   b. 225 ones = 225
   c. 23 tens = 230

3. a. 898 hundredths = 8.98
   b. 90 tenths = 9.0
   c. 9 ones = 9
   d. 1 ten = 10

4. a. 18.39 m
   b. 1,838.6 cm

5. Explanations will vary.

Lesson 8

Problem Set

1. a. 32.7; 32.70; 33

    b. 142.0; 142.00; 14; 100

2. 1,325.5

3. a. 13.74; explanations will vary.

    b. 13.65; explanations will vary.

Exit Ticket

1. a. 14.0

    b. 382.99

Homework

1. a. 43.6; 43.59; 44

    b. 243.9; 243.88; 240; 200

2. 285.2 miles

3. a. 18.64; explanations will vary.

    b. 18.55; explanations will vary.

Lesson 9

Sprint

Side A

1.	3	12.	9	23.	13	34.	50
2.	3	13.	10	24.	17	35.	3
3.	3	14.	20	25.	17	36.	17
4.	3	15.	30	26.	12	37.	12
5.	4	16.	90	27.	11	38.	5
6.	4	17.	2	28.	13	39.	13
7.	4	18.	2	29.	14	40.	60
8.	14	19.	2	30.	16	41.	5
9.	13	20.	2	31.	15	42.	19
10.	14	21.	2	32.	6	43.	20
11.	8	22.	3	33.	8	44.	70

Side B

1.	4	12.	9	23.	14	34.	40
2.	4	13.	10	24.	18	35.	4
3.	4	14.	20	25.	18	36.	18
4.	4	15.	30	26.	13	37.	13
5.	5	16.	80	27.	12	38.	6
6.	5	17.	3	28.	14	39.	14
7.	5	18.	3	29.	15	40.	50
8.	15	19.	3	30.	17	41.	6
9.	14	20.	3	31.	16	42.	19
10.	15	21.	3	32.	7	43.	20
11.	8	22.	4	33.	9	44.	60

Problem Set

1. a. 3; 0.3

   b. 23; 2; 3; 2.3

   c. 3;0.03

   d. 32; 3; 2; 0.32

   e. 3; 0.003

   f. 43; 4; 3; 0.043

   g. 603; 0.603

   h. 76; 7.6

   i. 9007; 9.007

2. a. 1.12

   b. 1.11

   c. 10.1

   d. 59.11

   e. 66.901

   f. 97.900

3. 2.542; 2.300

   6.122 km

4. Pedometer and math apps; explanations will vary.

Exit Ticket

1. a. 12; 1; 2

1. b. 72; 7; 2

1.

2. a. 4.20

   b. 44.92

Homework

1. a. 7

   b. 21; 2; 1

   c. 7

   d. 34; 3; 4

   e. 7

   f. 44; 4; 4

   g. 507

   h. 48

   i. 6,016

2. a. 1.1

   b. 2.11

   c. 10.1

   d. 59.11

   e. 77.701

   f. 97.900

3. a. 4,133 km

   b. 4.126 km

4. $12.86

Lesson 10

Problem Set

1. a. 3; 0.3
    b. 3; 9; 3.009
    c. 7; 4; 700.04
    d. 21; 0.021

2. a. 0.7
    b. 90.79
    c. 180.77
    d. 7.078
    e. 58.054
    f. 358.469

3. a. 89.9
    b. 0.8
    c. 2.5
    d. 4.69
    e. 5.592
    f. 1.81

4. No; explanations will vary; 0.47

5. $0.37

Exit Ticket

1. 17; 8; 9; 0.9

2. a. 56.077
    b. 6.65

Homework

1. a. 6
    b. 6; 2
    c. 4; 3
    d. 33; 3; 3

2. a. 0.9
    b. 40.94
    c. 319.92
    d. 5.092
    e. 46.166
    f. 737.09

3. a. 269.7
    b. 3.4
    c. 1.1
    d. 3.77
    e. 8.196
    f. 4.77

4. No; explanations will vary; 0.75

5. $3.89

Lesson 11

Problem Set

1. a. $3 \times 0.2 = 0.6$

    b. $5 \times 0.02 = 0.1$

    c. $3 \times 0.6 = 1.8$

    d. $6 \times 0.04 = 0.24$

    e. $5 \times 0.7 = 3.5$

    f. $0.004 \times 3 = 0.012$

2. a. 21; 0.7; 21.84

    b. $24 + 1.2 + 0.3 = 25.5$

    c. $12 + 1.8 + 0.15 = 13.95$

    d. $80 + 0.28 + 0.02 = 80.3$

3. Models will vary; 18.2

4. $8.80

Exit Ticket

1. $4 \times 0.3 = 1.2$

2. 9 ones; 6 tenths; 3 hundredths; 3; 9; 6; 3; 27 ones + 18 tenths + 9 hundredths = 28.89

Homework

1. a. $2 \times 0.4 = 0.8$

    b. $4 \times 0.05 = 0.2$

    c. $4 \times 0.7 = 2.8$

    d. $3 \times 0.05 = 0.15$

    e. $9 \times 0.7 = 6.3$

    f. $8 \times 0.006 = 0.048$

2. a. 24 ones; 28 tenths; 36 hundredths; 27.16

    b. $6 \times 7.49 = 44.94$

    c. $9 \times 3.65 = 32.85$

    d. $3 \times 20.175 = 60.525$

3. No; area models will vary; 34.4

4. $16.39

Lesson 12

Sprint

Side A

1.	4	12.	42.5	23.	5.1	34.	3.594
2.	4.5	13.	42.58	24.	5.8	35.	3.585
3.	4.52	14.	41.789	25.	5.83	36.	3.684
4.	0.4	15.	5	26.	5.836	37.	4.584
5.	0.47	16.	5.6	27.	6.736	38.	6.814
6.	5.47	17.	5.62	28.	5.746	39.	8.643
7.	0.04	18.	5.628	29.	5.737	40.	7.651
8.	0.84	19.	4.728	30.	6.218	41.	4.087
9.	2.84	20.	4.638	31.	3.01	42.	4.28
10.	40	21.	4.629	32.	3.51	43.	13.589
11.	42	22.	27.148	33.	3.59	44.	15.501

Side B

1.	3	12.	33.5	23.	4.1	34.	2.594
2.	3.5	13.	33.58	24.	4.8	35.	2.585
3.	3.53	14.	31.789	25.	4.83	36.	2.684
4.	0.3	15.	4	26.	4.836	37.	3.584
5.	0.37	16.	4.6	27.	5.736	38.	5.814
6.	5.37	17.	4.62	28.	4.746	39.	7.643
7.	0.03	18.	4.628	29.	4.737	40.	6.751
8.	0.83	19.	3.728	30.	5.218	41.	3.087
9.	4.83	20.	3.638	31.	2.01	42.	3.280
10.	30	21.	3.629	32.	2.51	43.	12.589
11.	33	22.	37.148	33.	2.59	44.	14.401

EUREKA
MATH™

Module 1:   Place Value and Decimal Fractions

Problem Set

1. a. Circle 10; answers will vary.

   b. Circle 21.98; answers will vary.

   c. Circle 48.176; answers will vary.

   d. Circle 49.32; answer will vary.

2. 2.20 m; 3 m; answer will vary.

3. ≈ 14 km; 14.48 km; accurate work shown

4. 80 × 5 is about $400; answers will vary.

Exit Ticket

1. a. Circle 10.2

   b. Circle 35.72

2. About 42; answers will vary.

Homework

1. a. Circle 6.3; answers will vary.

   b. Circle 25.62; answers will vary.

   c. Circle 42.371; answers will vary.

   d. Circle 43.38; answers will vary.

2. 33.2 kg

3. $128.49

4. $50.64

Lesson 13

Sprint

Side A

1.	4.0	12.	8.139	23.	7.983	34.	6.122
2.	4.9	13.	0.04	24.	7.981	35.	9.342
3.	4.93	14.	0.047	25.	2.6	36.	8.047
4.	4.932	15.	1.047	26.	2.685	37.	9.107
5.	3.932	16.	1.847	27.	2.285	38.	6.870
6.	1.932	17.	1.837	28.	4.513	39.	4.548
7.	0.4	18.	1.817	29.	3.57	40.	6.348
8.	0.43	19.	0.004	30.	3.576	41.	6.528
9.	0.439	20.	7.004	31.	3.536	42.	6.546
10.	8.439	21.	7.904	32.	7.942	43.	6.136
11.	8.339	22.	7.984	33.	6.125	44.	9.513

Side B

1.	5.0	12.	8.239	23.	7.984	34.	7.123
2.	5.9	13.	0.05	24.	7.982	35.	1.453
3.	5.93	14.	0.057	25.	3.6	36.	8.057
4.	5.932	15.	1.057	26.	3.685	37.	1.207
5.	4.932	16.	1.857	27.	3.285	38.	7.98
6.	2.932	17.	1.847	28.	5.524	39.	5.548
7.	0.5	18.	1.827	29.	4.57	40.	7.348
8.	0.53	19.	0.005	30.	4.576	41.	7.528
9.	0.539	20.	7.005	31.	4.536	42.	7.546
10.	8.539	21.	7.905	32.	6.143	43.	7.137
11.	8.439	22.	7.985	33.	7.126	44.	1.623

Problem Set

1. a. 4; 0.4

   b. 4; 0.04

   c. 12; 0.012

   d. 4; 0.4

2. a. 42; 6; 0.6

   b. 2; 64; 1; 32; 1.32

   c. 12; 64; 6; 32; 6.32

   d. 42; 6; 7 tenths + 1 hundredth; 0.71

   e. 42 tenths ÷ 6 + 36 thousandths ÷ 6; 7
      tenths + 6 thousandths; 0.706

3. a. 4; 0.4

   b. 9; 0.009

4. a. No; explanations will vary; 0.8

   b. No; explanations will vary; 8

   c. Yes; explanations will vary.

5. 3.12 doses or 3 full doses

6. $0.41

Exit Ticket

1. a. 9; 0.9

   b. 8; 0.08

   c. 3; 0.003

2. a. 45; 9; 0.9

   b. 6; 12; 1; 2; 1.02

Homework

1. a. 5; 0.5

   b. 4; 0.04

   c. 9; 0.009

2. a. 9; 36; 3; 12; 3.12

   b. 36; 12; 12; 4; 12.004

   c. 35; 5; 7 tenths + 1 hundredth; 0.71

   d. 35 tenths ÷ 5 + 45 thousandths ÷ 5; 7
      tenths+ 9 thousandths; 0.709

3. a. 3; 0.3

   b. 6; 0.006

4. a. No; explanations will vary; 0.09

   b. Yes; explanations will vary.

   c. No; explanations will vary; 9

5. $1.21

6. 6.32 L

Lesson 14

Problem Set

1. a. 1.412

    b. 0.662

2. a. 0.26

    b. 1.82

    c. 3.49

3. Explanations will vary; 0.21

4. 0.37 m

5. $0.12; accurate tape diagram shown.

Exit Ticket

1. 2.686

2. 0.144

Homework

1. a. 1.747

    b. 1.343

2. a. 0.16

    b. 1.29

    c. 2.734

3. $13.56

4. 0.4 lb

Lesson 15

Sprint

Side A

1.	100	12.	4,000	23.	2,400	34.	914,000
2.	100	13.	4,000	24.	2,470	35.	91,040
3.	1,000	14.	4,200	25.	2,407	36.	91,070
4.	1,000	15.	4,280	26.	2,400.7	37.	120
5.	10,000	16.	4,283	27.	53,000	38.	350
6.	10,000	17.	50,000	28.	53,000	39.	54,920
7.	300	18.	50,000	29.	53,800	40.	8,040
8.	300	19.	57,000	30.	53,080	41.	71,090
9.	310	20.	57,300	31.	53,082	42.	5.8
10.	315	21.	57,310	32.	91,000	43.	20,780
11.	315.7	22.	2,400	33.	91,000	44.	42,007.9

Side B

1.	100	12.	5,000	23.	4,200	34.	814,000
2.	100	13.	5,000	24.	4,270	35.	81,040
3.	1,000	14.	5,200	25.	4,207	36.	81,070
4.	1,000	15.	5,280	26.	4,200.7	37.	130
5.	10,000	16.	5,283	27.	35,000	38.	530
6.	10,000	17.	70,000	28.	35,000	39.	43,910
7.	400	18.	70,000	29.	35,800	40.	7,030
8.	400	19.	75,000	30.	35,080	41.	61,090
9.	410	20.	75,300	31.	35,082	42.	8.5
10.	415	21.	75,310	32.	81,000	43.	30,870
11.	415.7	22.	4,200	33.	81,000	44.	53,009.7

Problem Set

1. a. 0.25
    b. 1.425

2. a. 0.45
    b. 1.82
    c. 1.5
    d. 0.245
    e. 1.55
    f. 22.75

3. 1.25 kg
4. 3.25 L

Exit Ticket

1. 0.225
2. 1.96

Homework

1. a. 0.175
    b. 1.62

2. a. 0.35
    b. 0.65
    c. 2.25
    d. 0.46
    e. 2.35
    f. 11.375

3. 1.74 m
4. 1.425 gal

Lesson 16

Sprint

Side A

1.	100	12.	4,000	23.	34	34.	8.14
2.	100	13.	4,000	24.	34.7	35.	8.104
3.	1,000	14.	4,200	25.	34.07	36.	9.107
4.	1,000	15.	4,280	26.	34.007	37.	1.2
5.	10,000	16.	4,283	27.	63	38.	0.35
6.	10,000	17.	50,000	28.	63	39.	4.592
7.	300	18.	50,000	29.	63.8	40.	6.04
8.	300	19.	57,000	30.	63.08	41.	6.108
9.	310	20.	57,300	31.	63.082	42.	0.078
10.	315	21.	57,310	32.	8.1	43.	40.87
11.	315.7	22.	2,400	33.	8.1	44.	520.709

Side B

1.	100	12.	6	23.	43.7	34.	9.14
2.	100	13.	6	24.	43.7	35.	9.104
3.	1,000	14.	6.2	25.	43.07	36.	8.107
4.	1,000	15.	6.28	26.	43.007	37.	1.7
5.	10,000	16.	6.283	27.	73	38.	0.45
6.	10,000	17.	7	28.	73	39.	5.492
7.	5	18.	7	29.	73.8	40.	4.06
8.	5	19.	7.6	30.	73.08	41.	7.108
9.	5.1	20.	7.63	31.	73.082	42.	0.087
10.	5.16	21.	7.631	32.	9.1	43.	60.47
11.	5.167	22.	43	33.	9.1	44.	720.509

Problem Set

1. a. $31.50
   b. $42

2. Ava: 112 cm
   Olivia: 89 cm

3. $96.01

4. 1.675 lb

5. a. 8.85 kg
   b. 3; explanations will vary.

Exit Ticket

1. Word problems will vary; Jim's dog weighs 5.41 lb; $\frac{2}{3}$ of John's dog's weight is 10.82 lb.

Homework

1. 6.55 m

2. a. $127.05
   b. $1,172.95

3. 9.73 lb

4. 0.744 L