Unit 1 - Whole numbers

1 Place Value (pp. 6-7)

1. (a) 20,000   (b) 100,000
2. (a) four hundred thirty-five thousand, six hundred seventy-two
   (b) five hundred thousand, five hundred
   (c) four hundred four thousand, forty
   (d) three hundred forty-five thousand, seven hundred thirteen
   (e) seven hundred thousand, three hundred seventy
   (f) three hundred eleven thousand, twelve
   (g) eight hundred forty thousand, three hundred eighty-two
   (h) six hundred thousand, five
   (i) nine hundred ninety-nine thousand, nine hundred ninety-nine
3. (a) 401,062   (b) 970,505
   (c) 700,009

2 Millions (pp. 8-9)

1. (a) 2   (b) millions
2. (a) five million
   (b) four million, one hundred twenty six thousand
   (c) three million, six hundred ninety thousand
   (d) six million, eight hundred thousand
3. (a) 6,000,000   (b) 7,003,000
   (c) 8,000,000   (d) 9,023,000

Practice A (p. 10)

1. (a) 11,012   (b) 115,600
   (c) 700,013   (d) 880,005
   (e) 5,000,000   (f) 4,200,000
   (g) 10,000,000 (h) 8,008,000
2. (a) two hundred seven thousand, three hundred six
   (b) five hundred sixty thousand, three
   (c) seven hundred thousand
   (d) three million, four hundred fifty thousand
   (e) six million, twenty thousand
   (f) four million, three thousand
3. (a) 800   (b) 80,000   (c) 80
   (d) 800,000   (e) 8000
   (f) 8,000,000

4. (a) 6000   (b) 200,000
   (c) 184,900   (d) 7,609,000
   (e) 9,021,000 (f) 30,000
5. (a) 44,668; 45,668
   (b) 73,500; 74,500
   (c) 103,002; 113,002
   (d) 5,652,000; 5,662,000
   (e) 7,742,000; 5,742,000
6. (a) 53,607; 53,670; 53,760; 56,370
   (b) 324,468; 324,648;
       342,468; 342,486
   (c) 425,700; 2,357,000;
       2,537,000; 3,257,000

3 Approximation and Estimation (pp. 11-13)

1. 490
2. (a) 600   (b) 800   (c) 1000
3. 5700
4. (a) 3700   (b) 6000   (c) 5000
5. 17,000
6. (a) 23,000   (b) 55,000
   (c) 40,000
7. (b) 74,000   (c) 804,000
   (d) 130,000
8. 600
9. (a) 33,000   (b) 37,000
   (c) 28,000   (d) 700
10. 18,000
11. 700
12. (a) 12,000   (b) 87,000
    (c) 4000   (d) 39,000
    (e) 36,000   (f) 50,000
    (g) 800   (h) 900

Practice 1B (p. 14)

1. (a) 70   (b) 660   (c) 1290
2. (a) 300   (b) 1300   (c) 20,800
3. (a) 7000   (b) 11,000
   (c) 125,000
4. $800
5. $70,000
6. 1,000,000 km
7. (a) Town A: 180,000
   Town B: 176,000
   Town C: 171,000
   (b) 527,000
8. (a) 37,000   (b) 30,000
   (c) 38,000   (d) 48,000
9. (a) 36,000   (b) 54,000
   (c) 900   (d) 600

4 Multiplying by Tens, Hundreds, or Thousands (pp. 15-16)

1. (a) 3280   (b) 53,600
   (c) 63,000
3. (a) 1440   (b) 14,400
   (c) 144,000
4. (a) 27,000   (b) 270,000
   (c) 2,700,000
5. (a) 100,000   (b) 540,000
   (c) 4,800,000
   (d) 1,000,000   (e) 2,400,000
   (f) 10,000,000
6. 14,000
8. (a) 15,000   (b) 32,000
   (c) 480,000

5 Dividing by Tens, Hundreds, or Thousands (pp. 17-18)

1. (a) 52   (b) 74   (c) 40
3. (a) 7   (b) 80   (c) 40
4. 70
6. (a) 80   (b) 70   (c) 9

6 Order of Operations (pp. 19-20)

1. (a) 10   (b) 24   (c) 23
   (d) 32   (e) 147   (f) 99
   (g) 99   (h) 11   (i) 75
2. (a) 64   (b) 5   (c) 27
   (d) 432   (e) 3   (f) 12
   (g) 700   (h) 1   (i) 81
3. (a) 27   (b) 23   (c) 184
   (d) 30   (e) 46   (f) 18
   (g) 20   (h) 134   (i) 0
   (j) 18   (k) 22   (l) 62
4. 11
5. (a) 276   (b) 126   (c) 0
   (d) 180   (e) 10   (f) 459
6. (a) 5   (b) 14
   (c) 29   (d) 20
   (e) 28   (f) 100

Practice 1C (p. 21)

1. (a) 2380   (b) 70,000
   (c) 37,000
   (d) 4000   (e) 28,000
   (f) 520,000
2. (a) 3920   (b) 39,200
   (c) 392,000
3. (a) 6750   (b) 67,500
   (c) 675,000
4. (a) 9000   (b) 900   (c) 90
5. (a) 1500   (b) 150   (c) 15
6. (a) 4   (b) 190   (c) 151
   (d) 51   (e) 700   (f) 103

7. (a) 56   (b) 300
   (c) 3   (d) 15
   (e) 37   (f) 68
   (g) 37   (h) 10
   (i) 21   (j) 70
   (k) 50   (l) 4
8. (a) 356   (b) 356
   (c) 298   (d) 298
   (e) 16   (f) 16
   (g) 64   (h) 64

7 Word Problems (pp. 22-24)

1. 155
2. 936
3. 9
4. 40

Practice 1D (p. 25)

1. 71 kg
2. 48
3. 38 kg
4. $15
5. 40
6. 170
7. $42
8. $10
9. $5
10. $35

Unit 2 - Multiplication and Division by a 2-digit Whole Number

1 Multiplication (pp. 26-27)

1. (a) 3180   (b) 19,760
2. (a) 4640   (b) 2300   (c) 2430
   (d) 12,420   (e) 29,560
   (f) 44,870
3. (b) 2444
   (c) 17,550   (d) 44,496
4. (a) 2948   (b) 2544
   (c) 2784
   (d) 19,352   (e) 15,995
   (f) 28,482
5. (a) 120,510   (b) 313,386
6. (a) 162,127   (b) 440,510
   (c) 121,776
   (d) 266,340   (e) 364,458
   (f) 405,668

2 Division (pp. 28-31)

1. (a) 2 r10   (b) 7 r10
   (c) 4 r9   (d) 8 r65
2. (a) 1 r40   (b) 1 r39   (c) 2 r25
   (d) 7 r50   (e) 6 r73   (f) 7 r18

5. (a) 3 r12   (b) 2 r2   (c) 2 r9
    (d) 2 r8   (e) 2 r8   (f) 1 r28
    (g) 2 r15   (h) 6 r5   (i) 7 r91
    (j) 9 r20   (k) 4 r55   (l) 4 r7
8. (a) 4   (b) 3 r2   (c) 2 r28
    (d) 3 r20   (e) 1 r41   (f) 5
11. (a) 9   (b) 6 r2   (c) 6
    (d) 8 r60   (e) 8   (f) 6 r82
13. (c) 14 r45 (d) 40 r12
14. (a) 23   (b) 22 r22 (c) 20 r5
    (d) 12 r27 (e) 10 r38 (f) 20 r14
15. (c) 106 r36 (d) 70 r35
16. (a) 239   (b) 133 r15 (c) 33 r10
    (b) 107 r16 (d) 28 r18   (e) 340 r4

Practice 2A (p. 32)

1. (a) 34,188   (b) 33,810
    (c) 68,693
2. (a) 275,145 (b) 629,340
    (c) 194,796
3. (a) 3 r17   (b) 2 r26   (c) 3 r2
4. (a) 53   (b) 6 r1   (c) 9 r28
5. (a) 19   (b) 38 r21   (c) 23 r33
6. (a) 98 r40   (b) 58 r6   (c) 179 r4
7. 432
8. 16 ℓ
9. 28
10. $56
11. $59,824
12. $35,064
13. 42
14. $105

Unit 3 - Fractions

1 Fraction and Division (pp. 33-35)

1. $2\frac{3}{4}$

2. $2\frac{2}{3}$

3. 3; 11; $2\frac{3}{4}$

4. (a) $2\frac{1}{3}$ (b) $2\frac{4}{5}$

    (c) $3\frac{1}{2}$ (d) $8\frac{5}{9}$

Practice 3A (p. 36)

1. (a) $2\frac{3}{5}$ (b) 7

    (c) $2\frac{2}{3}$ (d) $8\frac{1}{3}$

2. (a) $3\frac{3}{4}$ (b) $5\frac{1}{4}$

    (c) $3\frac{1}{2}$ (d) $11\frac{1}{7}$

3. $3\frac{1}{4}$ m

4. $\frac{1}{3}$ m

5. $2\frac{1}{2}$

6. $\frac{2}{5}$ ℓ

7. $2\frac{1}{5}$ m

8. $\frac{2}{3}$ kg

2 Addition and Subtraction of Unlike Fractions (pp. 37-39)

$\frac{5}{6}$

1. 9; 4; 13
2. 10; 6; 16; $1\frac{1}{15}$
3. 21; 25; 46; 23; $1\frac{8}{15}$
4. (a) $1\frac{11}{18}$ (b) $1\frac{1}{6}$ (c) $1\frac{2}{15}$
5. 21; 4; 17
6. 25; 3; 22; 11
7. 30+21; 25; 51; 25; 13
8. (a) $\frac{8}{15}$ (b) $\frac{3}{4}$ (c) $\frac{4}{15}$

Practice 3B (p. 40)

1. (a) $1\frac{5}{12}$ (b) $1\frac{1}{15}$ (c) $1\frac{17}{24}$
2. (a) $\frac{1}{4}$ (b) $\frac{2}{15}$ (c) $\frac{7}{12}$
3. (a) $\frac{7}{15}$ (b) $\frac{3}{4}$ (c) $\frac{13}{24}$
4. (a) $\frac{19}{24}$ (b) $\frac{19}{30}$ (c) $\frac{7}{15}$
5. $\frac{13}{20}$
6. $\frac{1}{2}$ hour
7. (a) $\frac{3}{8}$ (b) $\frac{1}{8}$
8. (a) $\frac{17}{20}$ (b) $\frac{3}{20}$