

Primary Mathematics 4B Textbook Answer Key

Unit 1 - Decimals

1 Tenths (pp. 6-11)

1. (a) 0.4 (b) 0.6 (c) 0.9
2. (a) 0.1 (b) 0.3 (c) 0.5 (c) 0.7
3. 10
4. 4
5. (a) 0.6 (b) 0.6
6. (a) 2.4 (b) 2.8
7. (a) 1.5 (b) 2.9
8. A 0.4 B 0.9
C 1.1 D 1.6
9. (a) $\frac{1}{5}$ (b) $1\frac{1}{5}$
(c) $\frac{4}{5}$ (d) $2\frac{4}{5}$
10. 3.7
11. 8.5
12. (a) 0.3, 1.3, 3, 3.1
(b) 2.7, 7.2, 7.8, 9
13. (a) 2.3 (b) 36.5 (c) 50.4
14. (a) 1.2 (b) 2.1

2 Hundredths (pp. 12-19)

1. (a) 0.03 (b) 0.05 (c) 0.12
2. (a) 3.02 (b) 4.25
3. 3 tens, 4 ones, 5 tenths, 6 hundredths
4. 0.9, 0.02
5. (a) 0.4 (b) 1.28 (c) 2.05
6. (a) 1 (b) 1 (c) 2
(d) 5 (e) 45 (f) 26
7. (a) \$3.85 (b) \$6.50
(c) \$8.05 (d) \$85
8. (a) 2.84 (b) 36.25
(c) 54.03 (d) 80.57
9. (a) A 0.04 B 0.07 C 0.11
D 0.13 E 0.19
(b) P 4.62 Q 4.66 R 4.69
S 4.73 T 4.78
10. (a) $\frac{1}{4}$ (b) $1\frac{21}{25}$
11. (a) $\frac{3}{50}$ (b) $\frac{7}{25}$ (c) $\frac{6}{25}$
(d) $2\frac{1}{20}$ (e) $3\frac{13}{20}$ (f) $4\frac{3}{4}$
12. (a) 6, 0.6 (b) 45, 0.45
13. (a) 0.75 (b) 0.35 (c) 0.32
(d) 1.5 (e) 2.4 (f) 3.54
14. (a) 2.9 (b) 1.68

15. (a) 562.41 (b) 89.67
16. (a) 42.6 (b) 2.5 (c) 32.6
17. (a) 2.2, 2.02, 0.2, 0.02
(b) 80.7, 74.5, 7.8, 7.45
18. (a) 412.44 (b) 412.24
19. (a) 123.49 (b) 123.47
20. (a) 5.17 (b) 28.60
21. (a) 86.63 (b) 24.85 (c) 4.89
(d) 54.22 (e) 6.20 (f) 3.43
22. (a) 0.54 (b) 0.04
23. 0.18

3 Thousandths (pp. 20-22)

- (a) 0.024 (b) 0.315 (c) 4.002
1. (a) five thousandths, 0.005
(b) 2 - 20, 0 - 0, 4 - 0.4, 3 - 0.03
2. (a) 5.63 (b) 5.61
(c) 4.537 (d) 4.535
3. (a) 0.148 (b) 0.048
(c) 0.008
4. (a) 42.54 (b) 63.182
5. (a) 3.02, 0.32, 0.302, 0.032
(b) 2.628, 2.189, 2.139, 2.045
6. (a) 0.538, 0.83, 3.58, 5.8
(b) 9.047, 9.067, 9.074, 9.076
7. $\frac{13}{250}$
8. (a) $\frac{1}{2}$ (b) $\frac{2}{25}$
(c) $\frac{3}{125}$ (d) $\frac{69}{200}$
9. (a) $2\frac{9}{200}$
10. (a) $2\frac{3}{5}$ (b) $6\frac{1}{20}$
(c) $3\frac{1}{500}$ (d) $2\frac{51}{125}$
11. (a) 0.6, 0.652, $\frac{4}{5}$, 2
(b) $\frac{7}{25}$, 0.35, $1\frac{3}{4}$, 7.231

Practice 1A (p. 23)

1. (a) 0.6 (b) 6
(c) 0.06 (d) 0.006
2. (a) 4 (b) 7
(c) 0.08 (d) 0.004
3. (a) 5.509 (b) 2.819 (c) 13.52

4. (a) 0.72 (b) 3.78
(c) 5.8 (d) 8.04
5. (a) $\frac{2}{25}$ (b) $\frac{7}{50}$
(c) $\frac{29}{200}$ (d) $\frac{51}{125}$
(e) $3\frac{3}{5}$ (f) $1\frac{3}{25}$
(g) $4\frac{253}{500}$ (h) $2\frac{3}{500}$
6. (a) 0.9 (b) 0.03
(c) 0.039 (d) 0.105
(e) 1.7 (f) 2.18
(g) 3.007 (h) 0.999
7. (a) 0.07 (b) 0.2 (c) 2
(d) 0.005 (e) 2 (f) 1000

Practice 1B (p. 24)

1. (a) 0.008, 0.009, 0.08, 0.09
(b) 3.025, 3.205, 3.25, 3.502
(c) 4.386, 4.638, 4.683, 4.9
(d) 9.392, 9.923, 9.932, 10
2. (a) 0.5 (b) 0.75 (c) 0.2
(d) 3.8 (e) 6.25 (f) 4.6
3. (a) = (b) > (c) <
(d) = (e) > (f) >
4. (a) 1.703 (b) 0.085
(c) 5.069 (d) 10.052
5. (a) 0.248 (b) 0.792
(c) 3.78 (d) 10.504
(e) 7.009 (f) 9.803

4 Rounding Off (pp. 25-27)

1. (a) 37
2. 6
3. 25
4. (a) 4 (b) 14 (c) 30
(d) 5 (e) 16 (f) 19
5. (a) 3 (b) 3.2 (c) 4.4
6. (a) 4.3 (b) 4.3 (c) 7.1
7. (a) 0.9 (b) 2.5 (c) 7.1
(d) 11.0 (e) 18.0 (f) 24.6

Review A (p. 28)

1. (a) 0.4 (b) 0.02
(c) 3 (d) 100
2. (a) 3.3, 3.03, 0.3, 0.03
(b) 63.5, 6.4, 6.35, 5.63
(c) 0.305, 0.29, 0.05, 0.009
3. (a) 30.06 (b) 16.82
(c) 24.02 (d) 73.20
4. (a) 3 (b) 1

- (c) 13 (d) 10
(e) 4 (f) 5
(g) 10 (h) 20
5. (a) 0.8 (b) 0.1
(c) 2.7 (d) 8.1
(e) 10.9 (f) 19.1
(g) 20.6 (h) 10.1
6. (a) 590 (b) 2830 (c) 12,100
7. (a) 5,700 (b) 13,800 (c) 45,100
8. (a) 4.05 (b) 4.15
9. (a) 6097 (b) 364 r2
10. (a) 5,700 (b) 10
(c) 90,000 (d) 320
11. (a) $\frac{2}{3}$ (b) $\frac{1}{2}$
12. (a) $1\frac{7}{9}$ (b) $1\frac{1}{9}$ (c) $1\frac{3}{8}$
(d) $3\frac{3}{10}$ (e) $4\frac{7}{10}$ (f) $5\frac{1}{4}$
13. (a) 1 (b) 1 (c) $3\frac{1}{2}$
(d) $3\frac{1}{3}$ (e) $2\frac{2}{5}$ (f) $2\frac{2}{3}$
14. (a) 4.03 (b) 1.6
(c) 10.85 (d) 5.75
15. (a) $\frac{4}{5}$ (b) $1\frac{1}{4}$
(c) $4\frac{9}{20}$ (d) $6\frac{3}{50}$
16. (a) 10.4 11.4 12.7
(b) 2.4 3.4 4.8
17. (a) 860 (b) 1290
18. 2 liters
19. \$5
20. 8

Unit 2 - The Four Operations of Decimals**1 Addition and Subtraction (pp. 31-42)**

- (a) 0.9 (b) 0.5
1. (a) 0.7 (b) 0.07
4. (a) 0.8 (b) 1.3 (c) 1.2
(d) 0.06 (e) 0.1 (f) 0.17
5. 7.3
7. (a) 8.5 (b) 3.5 (c) 4.0
(d) 3.3 (e) 6.0 (f) 6.7
8. (a) 1.32 (b) 0.51
10. (a) 2.63 (b) 0.96 (c) 1.14
(d) 6.02 (e) 0.4 (f) 1.03
(g) 4.28 (h) 1.18 (i) 1.35
(j) 7.49 (k) 3.06 (l) 4.00
12. (a) 33.12 (b) 7.17

14. (a) 10; 9.76 (b) 7; 6.34
(c) 7; 7.18 (d) 6; 5.92
(e) 10; 9.43 (f) 13; 13.08
15. (a) 0.6 (b) 0.8 (c) 2.8
17. (a) 0.2 (b) 0.2 (c) 0.7
(d) 0.6 (e) 1.3 (f) 3.1
(g) 0.6 (h) 4.1 (i) 4.4
(j) 0.28 (k) 3.55 (l) 4.72
18. (a) 0.02 (b) 0.04 (c) 0.94
19. 0.77
20. (a) 0.07 (b) 0.47 (c) 3.47
(d) 0.06 (e) 0.26 (f) 2.26
(g) 0.93 (h) 1.93 (i) 3.91
(j) 0.55 (k) 2.55 (l) 3.14
22. (a) 3.23 (b) 3.47 (c) 4.16
(d) 4.74 (e) 6.13 (f) 6.41
24. (a) 3.6 (b) 3.5 (c) 2.7
(d) 2.5 (e) 2.6 (f) 4.8
26. (a) 3.74 (b) 0.31
(c) 3.73 (d) 2.66
27. (a) 0.42 (b) 0.25 (c) 0.88
(d) 3.4 (e) 3.49 (f) 3.55
(g) 0.44 (h) 2.15 (i) 1.62
(j) 1.55 (k) 3.44 (l) 0.95
29. (a) 16; 15.87 (b) 50; 50.01
(c) 40; 39.57
30. (a) 2; 2.63 (b) 21; 21.89
(c) 27; 27.54
31. 7.27
32. 9.98
33. 3.63
34. (a) 5.86 (b) 10.80 (c) 9.98
(d) 3.53 (e) 2.04 (f) 4.11
35. \$11.14
36. 5.1 m
37. \$32.95

Practice 2A (p. 43)

1. (a) 0.9 (b) 1.7 (c) 4.1
2. (a) 0.1 (b) 0.11 (c) 1.26
3. (a) 0.1 (b) 1.6 (c) 2.6
4. (a) 0.03 (b) 0.93 (c) 3.35
5. (a) 8.3 (b) 0.82 (c) 2.02
6. (a) 2.5 (b) 0.84 (c) 0.87
7. (a) 9, 8.85 (b) 8, 7.58
(c) 20, 20.04 (d) 3, 2.80
(e) 4, 4.51 (f) 4, 3.64
8. 1.25 m
9. \$13.25
10. \$20.40
11. 3.9 kg
12. Fred, 0.8 s

Practice 2B (p. 44)

1. (a) 48.68 (b) 19.43 (c) 40.02
2. (a) 28.6 (b) 17.31 (c) 19.98

3. (a) 13.33 (b) 22.23 (c) 4.89
4. (a) 36.65 (b) 11.05 (c) 10.61
5. 5.89 lb
6. 2.25 l
7. 10 km
8. 55.8 cm
9. \$4.05
10. \$2.60

2 Multiplication (pp. 45-51)

- 1.2
1. (a) 0.8 (b) 0.08
2. (a) 2.1 (b) 3.0
3. (a) 0.21 (b) 0.3
4. (a) 6 (b) 0.6 (c) 0.06
(d) 28 (e) 2.8 (f) 0.28
(g) 40 (h) 4 (i) 0.4
6. (a) \$0.80 (b) \$4.20 (c) \$7.2
9. (a) 12.9 (b) 1.04 (c) 12.48
(d) 11.8 (e) 2.25 (f) 36.16
10. (a) 124.2 (b) 260.8
(c) 414.09 (d) 180.81
11. (a) 37 (b) 102.06 (c) 289.56
(d) 80.4 (e) 180.75 (f) 442
13. (a) 20; 19.5 (b) 8; 5.76
(c) 180; 178.38
14. (a) 8.2 (b) 117 (c) 292.05
15. 23.70
16. 80.20
17. 18.20
18. 21.4

Practice 2C (p. 52)

1. (a) 8.6 (b) 11 (c) 2.28
2. (a) 6.23 (b) 4.52 (c) 4.14
3. (a) 5.3 (b) 3.5 (c) 1.85
4. (a) 1.52 (b) 3.17 (c) 2.85
5. (a) 3.6 (b) 5.6 (c) 1.86
6. (a) 1.35 (b) 6 (c) 19.3
7. (a) 18; 19.2 (b) 6, 7.44
(c) 20, 20.45
8. 0.11 m
9. 40.35 lb
10. \$7.15
11. 1.3 liters
12. \$8.25

3 Division (pp. 53-61)

- 0.3
1. (a) 0.3 (b) 0.03
2. (a) 0.6 (b) 0.5
3. (a) 0.06 (b) 0.05
4. (a) 2 (b) 0.2 (c) 0.02
(d) 5 (e) 0.5 (f) 0.05
(g) 6 (h) 0.6 (i) 0.06
6. (a) 0.3 (b) 0.3 (c) 0.6

8. (a) 0.13 (b) 0.21 (c) 0.11
 (d) 0.17 (e) 0.15 (f) 0.16
 10. (a) 0.15 (b) 0.15 (c) 0.19
 (d) 0.71 (e) 0.72 (f) 0.56
 12. (a) 1.32 (b) 1.03 (c) 2.43
 14. (a) 1.55 (b) 2.75 (c) 3.45
 16. (a) 6.08 (b) 1.5
 17. (a) 1.6 (b) 2.5 (c) 2.75
 (d) 0.45 (e) 0.34 (f) 4.25
 20. (a) 0.3; 0.27 (b) 0.9; 0.89 (c) 5; 5.15
 21. 2.3; 2.3
 22. 19.6
 23. (a) 0.2 (b) 0.6 (c) 0.6
 (d) 0.2 (e) 0.4 (f) 5.4
 24. \$3.20
 25. \$3.60
 26. 0.95
 27. 1.08

Practice 2D (p. 62)

1. (a) 32.8 (b) 15.87 (c) 26.32
 2. (a) \$0.90 (b) \$16.20 (c) \$30.60
 3. (a) 3.2 (b) 0.42 (c) 1.36
 4. (a) \$0.15 (b) \$0.60 (c) \$0.85
 5. (a) 36; 39.24 (b) 30; 31.5
 (c) 14; 13.58
 6. (a) 3; 2.95 (b) 4; 3.99 (c) 9; 8.76
 7. 1.5 qt
 8. 7.5 kg
 9. 1.35 yd
 10. \$17.60
 11. 0.38 kg
 12. \$5.50

Practice 2E (p. 63)

1. 44 liters
 2. 11.9 kg
 3. \$14.85
 4. \$5.80
 5. \$6.00
 6. \$6.95
 7. \$6.60
 8. \$2.45

Practice 2F (p. 64)

1. \$7.50
 2. 1.65 m
 3. 7.95 kg
 4. \$14.35
 5. \$12
 6. 45¢
 7. 14.63 m
 8. 5¢

Review B (p. 65)

1. (a) 124.66 (b) 124.57
 (c) 124.46 (d) 124.55
 2. (a) > (b) <
 (c) < (d) =
 3. (a) 100 (b) 108
 (c) 10 (d) 1
 4. (a) 100 (b) \$35
 (c) 9 kg (d) 10 m
 5. (a) 30; 29.4 (b) 63; 62.3
 (c) 20; 19.95 (d) 33; 32.97
 6. (a) 8,000 (b) 80
 (c) 8 (d) 80,000
 7. 36
 8. 57
 9. (a) $1\frac{1}{12}$ (b) $\frac{8}{9}$
 (c) $1\frac{1}{3}$ (d) $1\frac{1}{2}$
 10. (a) $\frac{2}{3}$ (b) $2\frac{4}{7}$
 (c) $\frac{3}{8}$ (d) $5\frac{5}{6}$
 11. (a) $\frac{1}{12}, \frac{1}{3}, \frac{5}{6}$
 (b) $1\frac{1}{4}, 1\frac{3}{4}, \frac{9}{4}$
 (c) $1\frac{3}{5}, 3, \frac{9}{2}$
 (d) $2\frac{1}{5}, \frac{9}{4}, \frac{20}{6}$
 12. \$36,000
 13. \$77
 14. (a) 6.7 (b) 14.3 (c) 4.9
 15. 5 cm
 16. 9 in.
 17. \$3.90
 18. 0.6 m
 19. $\frac{7}{10}$
 20. $2\frac{2}{5}$ km
 21. 6
 22. 75
 23. $4\frac{1}{2}$ t
 24. \$73
 25. \$5.70

Unit 3 - Measures**1 Multiplication (pp. 68-71)**

- 3 kg 600 g
 1. 5 km 200 m
 2. 10 ℓ 2000 ml; 12 liters

2 Division (pp. 70-71)

- 1 m 30 cm
 1. 1 kg 130 g
 2. 1 h 15 min
 3. 400 ml

Practice 3A (p. 72)

1. (a) 16 km
(b) 17 ℓ 200 ml
(c) 11 h 40 min
(d) 15 kg 600 g
(e) 37 m 20 cm
(f) 25 yd 2 ft
2. (a) 1 ℓ 120 ml
(b) 2 km 650 m
(c) 18 min
(d) 1 kg 500 g
(e) 65 cm
(f) 1 ft 5 in.
3. 2 ℓ 550 ml
4. 1 kg 190 g
5. 17 h 30 min
6. (a) 5 kg 400 g
(b) 7 kg 200 g
7. (a) 51 h
(b) \$255
8. 2 m 44 cm
9. 300 g
10. \$28

Unit 4 - Symmetry**1 Symmetric Figures (pp. 74-79)**

5. (c)
6. (a) no (b) yes
7. no
8. (a) yes (b) yes
(c) no (d) yes

Review C (p. 80)

1. (a) 2 (b) 0.03
2. (a) 90,504 (b) 17,541
3. 2.69
4. (a) 80,300; 82,300
(b) 5.59, 6.09
5. (a) 14,680 (b) 30,083
(c) 9,900 (d) 89,301

6. (a) 7.03 (b) 4.9
(c) 2.41 (d) 3.602
7. (a) 14,058; 14,508; 41,058; 41,508
(b) 0.96, 8.54, 24.3, 72
8. (a) 0.28 (b) 0.04
9. (a) A - 4490 B - 4540 C - 4620
(b) P - 2.43 Q - 2.49 R - 2.54
10. 8.5
11. (a) Any 2 of these: 1, 3, 5, 9, 15, 45
(b) 24, or 48, or 72...
12. (a) 10.41 (b) 15,336
13. 6350
14. 138 in.
15. \$7.50
16. 0.75 qt
17. 1 ℓ 750 ml
18. \$10.75
19. \$57.55
20. \$18
21. \$445
22. \$2250

Review D (p. 83)

1. (a) 123.58, 132.85, 135.28, 251.83
(b) 123.58 - 20; 132.8 - 2;
135.28 - 0.2; 251.83 - 200
(c) 123.58
2. (a) 6 (b) 7
3. (a) 450.07 (b) 35.53
(c) 30.54 (d) 107.08
4. 42
5. (a) 30,000; 27,360
(b) 9,000; 8,262
(c) 32,000; 32,103
6. (a) $1\frac{4}{9}$ (b) $1\frac{3}{8}$ (c) $1\frac{2}{5}$
(d) $\frac{1}{8}$ (e) 50 (f) $4\frac{1}{2}$
7. (a) $1\frac{9}{25}$ (b) 3.22
8. \$12.25
9. (a) 26 cm, 22 cm²
(b) 62 cm, 138 cm²
10. (b) 327
11. 9 in.
12. 20 m
13. (a) 340 ml (b) 744 g (c) 5 in.
14. (a) 7 h 35 min (b) 10:05 p.m.
15. \$21.85
16. \$21

Unit 5 - Solid Figures**1 Identifying Solid Figures (pp. 86-89)**

5. A. 5 B. 6 C. 9 D. 9
 6. P. 9 Q. 8
 7. A. 2 B. 10
 8. C. 2 D. 6

Unit 6 - Volume**1 Cubic Units (pp. 90-97)**

1. 6
 2. A. 5 B. 9 C. 18 D. 12
 3. 3; 6
 4. 32 cm³
 5. A. 4 cm³ B. 12 cm³
 C. 10 cm³ D. 12 cm³

2 Volume of a Cuboid (pp. 93-97)

1. 24 cm³
 (a) 3; 2; 2; 12
 (b) 5; 3; 1; 15
 (c) 3; 3; 3; 27
 (d) 4; 2; 5; 40
 2. 80
 3. 2
 4. 60
 5. 27
 6. A. 54 cm³ B. 30,000 cm³
 C. 350 m³ D. 180 m³
 7. 1000; 1000; 1
 8. (a) 2000 cm³ (b) 400 cm³
 (c) 1200 cm³
 9. (a) 1 ℓ 750 ml
 (b) 2 ℓ 450 ml
 (c) 3 ℓ 50 ml
 10. (a) 12,000 cm³
 (b) 4800 cm³; 4 ℓ 800 ml

Practice 6A (p. 98)

1. (a) 9 in.³ (b) 15 in.³
 2. 11,250 cm³
 3. 125 cm³
 4. 360 ft³
 5. 120
 6. 12,000 cm³

Practice 6B (p. 99)

1. (a) 3000 cm³ (b) 250 cm³
 (c) 2060 cm³
 2. (a) 1 ℓ 50 ml (b) 1 ℓ 800 ml
 (c) 3 ℓ 500 ml
 3. 450 ml
 4. (a) 2880 cm³
 (b) 2 ℓ 880 ml
 5. (a) 15,000 cm³
 (b) 3000 cm³

Review E (p. 100)

1. (a) 79,431; 79,433; 80,331; 80,431
 (b) 0.09, 0.55, 0.6, 0.7
 (c) $2\frac{2}{9}$, $2\frac{4}{9}$, $2\frac{2}{3}$, $\frac{9}{2}$
 2. (a) $1\frac{1}{4}$ (b) $1\frac{2}{9}$ (c) $4\frac{7}{10}$
 (d) $\frac{1}{6}$ (e) 8 (f) $13\frac{1}{3}$
 3. 66 m²
 4. 360 g
 5. 36
 6. (a) \$27 (b) 8
 7. (a) 1.6 (b) $2\frac{1}{20}$
 8. (a) 24,000; 22,548
 (b) 42,000; 38,412
 (c) 15,000; 14,455
 9. 4
 10. (a) 6 (b) 2
 14. C
 15. (a) 110 cm, 460 cm²
 (b) 60 m, 128 m²
 16. (a) 156 m²
 (b) 108 m²
 17. 13 m, 38 m
 18. 144 cm²
 19. 0.9 m or 90 cm
 20. \$112.80
 21. 80
 22. (a) \$8 (b) March (c) \$64

Primary Mathematics 4B Workbook Answer Key

Exercise 1

- (a) 0.2 (b) 0.5
(c) 0.8 (d) 0.9
- (a) 0.4 (b) 0.7
- (a) 0.9 (b) 0.5
- (a) 0.2 (b) 0.6
(c) 0.9
- (a) 0.8 (b) 0.4
(c) 0.5 (d) 0.1

Exercise 2

- 6.3
- (a) 6.4 (b) 9.7
(c) 8.2
- (a) 1.6 (b) 2.4
- (a) 2.8 (b) 1.4

Exercise 3

- 0.3, 0.4, 0.5, $\frac{2}{10}$, $\frac{6}{10}$
1.3, 1.4, 3.5, $1\frac{2}{10}$, $2\frac{2}{10}$
- (a) 0.4 (b) 1.4
(c) 0.5 (d) 3.5
- (a) $\frac{3}{10}$ (b) $2\frac{3}{10}$
(c) $\frac{3}{5}$ (d) $3\frac{3}{5}$
- (a) 0.4, 1.3, 2.8
(b) 8.8, 10.2, 11.7
(c) 59.5, 61.6, 64.4
- (a) > (b) >
(c) = (d) >
- (a) 0.1 (b) 0.9
- (a) 6.2 (b) 2.9
- (a) 2.7, 2.9 (b) 6, 6.5

Exercise 4

- (a) 34.6 (b) 50.7
(c) 45.3 (d) 40.9
- (a) 0.8 (b) 0.3 (c) 90
(d) 30 (e) 5 (f) 9

$$\begin{array}{lll}
 3. \quad 1.2 = 1\frac{2}{10} & 1\frac{5}{10} = 1.5 & 0.5 = \frac{5}{10} \\
 \frac{9}{10} = 0.9 & 4.1 = 4\frac{1}{10} & 2\frac{8}{10} = 2.8 \\
 3\frac{7}{10} = 3.7 & \frac{4}{10} = 0.4 & 1\frac{3}{10} = 1.3 \\
 \frac{6}{10} = 0.6 & 1.4 = 1\frac{4}{10} &
 \end{array}$$

Exercise 5

- (a) 0.82 (b) 8.34 (c) 3.05
(d) 5.17 (e) 20.09
- (a) 34.02 (b) 40.25
(c) 24.13 (d) 30.04
- (a) 0, 0 (b) 0, 0
(c) tenths, $\frac{4}{10}$
(d) tens, 50
(e) hundredths, 0.03
(f) ones, 0
- (a) 0.03, 0.2, 0, 90
(b) 0.01, 0.4, 7, 80
(c) 0.09, 0, 6, 50
(d) 0.8, 8, 10, 200

Exercise 6

- (a) 0.07 (b) 1.07
(c) 0.58 (d) 2.58
(e) 0.24 (f) 1.24
(g) 0.65 (h) 3.65
(i) 0.03 (j) 2.03
(k) 0.05 (l) 10.05
- $\frac{9}{10} = 0.9$ $\frac{7}{100} = 0.07$
 $\frac{17}{100} = 0.17$ $\frac{29}{100} = 0.29$
 $\frac{3}{10} = 0.3$ $\frac{9}{100} = 0.09$ $\frac{7}{10} = 0.7$

Exercise 7

- (a) 80.7 (b) 24.5
(c) 34.04 (d) 7.29
- (a) $\frac{7}{100}$ (b) $\frac{5}{100}$ (c) $\frac{2}{10}$
(d) $\frac{7}{10}$ (e) $\frac{4}{10}$

3. (a) 0.04 (b) 0.05 (c) 0.1
 (d) 0.08 (e) 0.3
 4. (a) 1.0, 1.2 (b) 3, 3.5
 (c) 2.7, 2.5 (d) 8.5, 7.5
 (e) 0.2, 0.3 (f) 0.3, 0.25
 (g) 0.08, 0.12 (h) 9.85, 9.75
 5. (a) 0.13, 0.28 (b) 0.87, 0.97
 (c) 3.08, 3.22, 3.37

Exercise 8

1. (a) $\frac{1}{2}$ (b) $2\frac{1}{2}$
 (c) $\frac{2}{25}$ (d) $1\frac{2}{25}$
 (e) $\frac{3}{20}$ (f) $3\frac{3}{20}$
 (g) $\frac{16}{25}$ (h) $1\frac{16}{25}$
 2. $\frac{2}{10}$, 0.2
 3. $\frac{75}{100}$, 0.75
 4. (a) $\frac{5}{10}$, 0.5 (b) $3\frac{5}{10}$, 3.5
 (c) $\frac{6}{10}$, 0.6 (d) $1\frac{6}{10}$, 1.6
 (e) $\frac{25}{100}$, 0.25
 (f) $2\frac{25}{100}$, 2.25
 (g) $\frac{16}{100}$, 0.16
 (h) $1\frac{16}{100}$, 1.16
 5. (a) 0.8 (b) 3.8 (c) 0.45
 (d) 1.45 (e) 0.06 (f) 2.06

Exercise 9

1. (a) > (b) >
 (c) < (d) >
 2. (a) < (b) >
 (c) < (d) >
 (e) = (f) >
 (g) = (h) >
 3. (a) 0.88 (b) 0.61
 (c) 2.99 (d) 0.42
 4. (a) 3 (b) 8.1
 (c) 5.33 (d) 7.01

Exercise 10

1. (a) 324.57 (b) 234.05
 2. (a) 46.15 (b) 39.21
 (c) 59.98 (d) 42.49
 (e) 0.1 (f) 0.01
 (g) 0.1 (h) 0.01
 3. (a) 5.56 (b) 4.95
 (c) 4.02 (d) 7.23
 (e) 4.58 (f) 8.1
 (g) 6.5 (h) 5.34
 4. (a) 2.33 (b) 4.68
 (c) 3.98 (d) 1.64
 (e) 3.45 (f) 4.22
 (g) 5.19 (h) 3.63
 5. (b) 0.38 (c) 0.99 (d) 0.92

Exercise 11

1. (a) 0.004 (b) 4.007
 (c) 0.083 (d) 0.435
 2. (a) 0.003 (b) 0.406
 3. (a) $\frac{9}{1000}$ (b) $\frac{43}{1000}$
 4. (a) 3, 4, 7, 9 (b) $4\frac{4}{10}$
 (c) $\frac{9}{1000}$ (d) $\frac{7}{100}$
 5. (a) 8.4, 8.8, 9.1, 9.5
 (b) 3.22, 3.25, 3.29, 3.32
 (c) 5.999, 6.002, 6.007, 6.012
 (d) 5.265, 5.269, 5.272, 5.275

Exercise 12

1. (a) 4.7 (b) 9.1
 (c) 1.924 (d) 5
 2. (a) 624.8 (b) 5.73
 (c) 1.1
 3. (a) > (b) < (c) =
 (d) > (e) > (f) <
 4. 2.128, 2.18, 2.218, 2.8
 5. 6.952, 6.3, 6.295, 6.03

Exercise 13

1. (a) $\frac{16}{25}$ (b) $\frac{19}{50}$
 (c) $2\frac{2}{25}$ (d) $4\frac{19}{20}$
 (e) $\frac{27}{125}$ (f) $\frac{44}{125}$
 (g) $3\frac{88}{125}$ (h) $2\frac{17}{40}$

2. (a) 2.75 (b) 0.5
(c) $1\frac{1}{2}$ (d) 0.65
3. (a) 1.245, 1.254, 1.425, 1.524
(b) 0.097, 0.119, 0.19, 0.91
(c) $1\frac{9}{10}$, 2.5, $3\frac{1}{5}$, 3.95
(d) $7.1, 7\frac{1}{5}, 7.5, 7\frac{3}{5}$

Exercise 14

1. (a) 74 (b) 10
(c) 19 (d) 33
2. (a) 47 lb (b) 3 m
(c) 1 liter (d) 29 km
3. (a) \$3 (b) \$11
4. (a) 2 liters (b) 2 liters
5. (a) 40 (b) 46 (c) 6
(d) 6 (e) 102 (f) 300

Exercise 15

1. (a) 4.7 (b) 8.1
2. (a) 1.5 liters (b) 20.3 kg (c) 9.1 m
3. 34.9 kg, 41.7 kg, 39.8 kg

Review 1

1. 92,405
2. thousands
3. 46,495
4. (a) 6000 (b) 42,096
(c) 90,800 (d) 27,481
5. 78,502
6. 0.03
7. 24,519
8. 30, 60
9. $\frac{8}{12}$
10. $\frac{7}{12}$
11. 13
12. 3.4
13. A-1.21 B-1.28 C-1.32
14. 4.5, 5
15. 2 km, 20 m, 253 cm, 2 m 35 cm
16. (a) \$12 (b) Sumin
17. $2\frac{1}{6}$ yd
18. 30
19. 10 m
20. 127°
21. angle d
22. 53°

23. \$25
24. 1100
25. \$920
26. 6
27. 16 cm

Review 2

1. 98,510
2. 1; 10; 100; 1,000; 10,000
3. $\frac{6}{10}$
4. 9
5. (a) 48,230 (b) 70.54
6. \$4
7. $\frac{11}{20}$ kg
8. (a) 5.25 (b) 16.8
9. (a) $\frac{17}{20}$ (b) $2\frac{2}{5}$
10. 5
11. 495
12. 6.3
13. \$35
14. (a) 6.05 (b) 3.7
(c) 0.61 (d) 6.7
15. (a) > (b) =
16. 10:15 a.m.
17. 3 km 110 m
18. $\frac{3}{10}$
19. $\frac{2}{5}$
20. $1\frac{3}{4}$ lb
21. \$9
22. \$1180
23. 5 yd
24. 134°
25. (a) CD and IJ (b) GH and PQ
26. 16 in.
27. 14

Review 3

1. P - 89,100 Q - 89,800 R - 90,400
2. (a) 6000 (b) 50,012 (c) 53,045
3. hundred
4. \$15,020
5. \$22.50
6. 0.02
7. 5
8. (a) 21 (b) 48.02
(c) 0.06 (d) 0.2
9. 10.03

10. 40.26, 40.62, 42.06, 42.6
11. 490
12. $\frac{1}{2}$
13. $1\frac{3}{5}$
14. \$4
15. 1 l 500 ml
16. (a) 4,650 ml (b) 2,634 m
(c) 5,107 g (d) 184 min
(e) 4 h 20 min (f) 4 kg 7 g
(g) 5 m 80 cm (h) 3 20 ml
(i) 6 lb 12 oz
17. (a) 8 in. (b) 32 in.
18. 72 cm²
19. 2
20. 150°, 120°
22. 2 kg 560 g
23. 13 cm
24. $5\frac{1}{5}$

Exercise 16

1. (a) 0.8 (b) 1.2 (c) 0.6
(d) 1 (e) 1.4
2. (a) 0.06 (b) 0.12 (c) 0.05
(d) 0.1 (e) 0.11

Exercise 17

1. (a) 3.1 (b) 5.4
(c) 10.5 (d) 6.2
2. (a) 5 (b) 8.3
(c) 13.7 (d) 16.3

Exercise 18

1. (a) 2.73 (b) 2.55
(c) 5.05 (d) 4.57
(e) 6.24 (f) 3.88
(g) 2.7 (h) 4.34
2. (a) 0.92 (b) 3.03
(c) 2.36 (d) 28.28
(e) 3.62 (f) 9.61
(g) 17.34 (h) 68.18

Exercise 19

1. D 42.9 S 20.51 Q 44.09 M 90
O 11.36 N 66.9 M 33.6 U 63
I 27.35 J 88.75 A 68.05 V 82
VANDA MISS JOAQUIM

Exercise 20

1. (a) 0.6 (b) 0.9
(c) 0.3 (d) 3.9
2. (a) 5.3 (b) 2.6
(c) 3.16 (d) 2.2

Exercise 21

1. (a) 0.05 (b) 0.65
(c) 0.85 (d) 0.92
2. (a) 4.38 (b) 1.48
3. (a) 0.42 (b) 3.24
(c) 2.78 (d) 6.06
(e) 2.62 (f) 4.23
(g) 5.04 (h) 3.91

Exercise 22

1. (a) 2.1 (b) 2.7
(c) 3.6 (d) 1.6
(e) 2.2 (f) 1.4
(g) 4.1 (h) 3.6

Exercise 23

1. (a) 2.44 (b) 2.55
(c) 0.07 (d) 8.78
(e) 3.24 (f) 4.76
(g) 6.15 (h) 5.43

Exercise 24

1. T 2.35 E 3.08 H 0.43 U 4.65
R 4.67 P 0.78 C 7.24 S 1.37
I 7.38 G 4.16 O 8.96 N 6.78
PENGUIN OSTRICH

Exercise 25

1. (a) 7.24, 7.23, 7.23
(b) 11.63, 11.58, 11.58
(c) 1.82, 1.83, 1.83
(d) 4.05, 4.07, 4.07
2. (a) 9.79 (b) 10.64
3. (a) 4.26 (b) 4.58

Exercise 26

1. 2.65 yd
2. 1.4 kg
3. \$33.91

Exercise 27

1. \$9.60
2. \$3.50
3. \$84.30
4. 1 ft

Exercise 28

- (a) 0.8 (b) 1.8
(c) 1.4 (d) 3.6
(e) 3.0 (f) 5.6
(g) 2.7 (h) 4.0
- (a) 0.06 (b) 0.28
(c) 0.18 (d) 0.35
(e) 0.3 (f) 0.72
(g) 0.12 (h) 0.48

Exercise 29

- (a) 8.6 (b) 19.2
(c) 16.8 (d) 42.3
(e) 27.6 (f) 38.5
(g) 132.5 (h) 244.8

Exercise 30

- (a) 1.66 (b) 0.72
(c) 15.78 (d) 27
(e) 42.18 (f) 45.12
(g) 579.46 (h) 582.48

Exercise 31

- L 0.96 H 81.2 E 0.21 Y 14.73
T 32.25 E 561 P 726.3 E 64.44
N 36.45 D 3265.6 H 28.94 E 78.48
HELP THE NEEDY

Exercise 32

- 3.75 yd 2. 28.5 l 3. \$15

Exercise 33

- $\$6.90 + \$2.90 = \$9.80$
 $\$7.50 + \$1.90 = \$9.40$
 $\$9.95 + \$4.80 = \$14.75$
 $\$24 + \$16.50 = \$40.50$
- 3.3 m
- \$10.60

Exercise 34

- (a) 0.4 (b) 0.3
(c) 0.3 (d) 0.4
(e) 0.4 (f) 0.6
(g) \$0.70 (h) \$0.60
- (a) 0.06 (b) 0.05
(c) 0.04 (d) 0.06
(e) 0.06 (f) 0.06
(g) \$0.09 (h) \$0.05

Exercise 35

- (a) 0.24 (b) 0.21
(c) 0.13 (d) 0.19
(e) 0.28 (f) 0.17
(g) 0.13 (h) 0.12
- (a) \$0.95 (b) \$0.85
(c) \$0.35 (d) \$0.90

Exercise 36

- (a) 4.13 (b) 3.22
(c) 1.47 (d) 2.68
(e) 22.75 (f) 5.27
(g) 20.14 (h) 7.05
- (a) \$1.05 (b) \$1.15
(c) \$1.45 (d) \$1.35
(e) \$1.15 (f) \$1.09
(g) \$2.55 (h) \$1.75

Exercise 37

- (a) 1.4 (b) 0.75
(c) 0.25 (d) 0.95
(e) 1.24 (f) 1.25
(g) 8.25 (h) 5.85
- (a) 4.85 (b) 15.15
(c) 11.75 (d) 9.72
(e) 37.5 (f) 3.25
(g) 0.25 (h) 29.35

Exercise 38

- 4.6 20.3 7.6 6.0
5.5 3.2 9.3 2.2
9

Exercise 39

- 0.37 m
- \$6.80
- \$5.65

Exercise 40

- \$3.90
- \$6.25
- 0.3 lb
- 6.5 liters

Exercise 41

- (a) 4 l 900 ml
(b) 7 m 95 cm
(c) 31 km 250 m
(d) 1 kg 100 g
(e) 1 hr 50 min
(f) 400 ml
(g) 25 lb 2 oz
(h) 11 ft 4 in.

2. 4 l 500 ml
3. 33 kg
4. 6h 40 min
5. 750 g
6. (a) 1 m 50 cm
(b) 3 m
7. 1 kg 250 g

Review 4

1. (a) 10,590; 10,050; 9950; 9590; 9190
(b) 8.3; 7.28; 2.83; 2.05
2. (a) 57.76 (b) 4.43
(c) 20.15 (d) 282
3. (a) 51.2 (b) 44
4. 26.08
5. A=5.78 B=5.84 C=5.87
6. 9h 35 min
7. 1.24 m
8. 480
9. $\frac{3}{4}$
10. $\frac{1}{3}$
11. $3\frac{2}{5}$ gal
12. 15
13. (a) 33° (b) 44°
14. \$6.00
15. 3 ft 1 in.
16. 1 lb 4 oz

Review 5

1. 80,000
2. 6
3. (a) 10,000 (b) 1000 (c) 5
4. (a) 4.54, 5.04, 20.5, 25.4
(b) 3.515, 5.013, 10.513, 13.015
5. 12.65
6. 1400 km
7. (a) 0.5 (b) 3.72 (c) 0.5
8. 13
9. P: $3\frac{1}{4}$ Q: $3\frac{5}{8}$ R: $4\frac{1}{8}$
10. $\frac{2}{5}$
11. $1\frac{4}{5}$, $1\frac{1}{8}$, $\frac{5}{6}$, $\frac{3}{4}$
12. $\frac{1}{5}$
13. 349
14. 336
15. 1200
16. \$16.50

17. 3.48 km

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

19. 16 qt
20. 10.50 a.m.
21. 2 h 45 min
22. \$8.10
23. \$294
24. (a) 43 (b) 4C
25. \$1832
26. 0.47 lb

Exercise 43

2. (a) yes (b) no
(c) yes (d) yes
(e) no (f) no
(g) no (h) yes

Exercise 46

- | | | |
|---------|------|-----|
| 1. A 3 | B 4 | C 2 |
| D 6 | E 5 | F 8 |
| 2. A 16 | B 27 | C 6 |
| D 9 | E 7 | |

Exercise 47

1. (a) 1 (b) 2 (c) 2
2. (a) 1 (b) 2 (c) 2

Exercise 48

- | | | |
|---------|------|------|
| 1. A 12 | B 6 | C 16 |
| D 15 | E 10 | F 15 |
| C B | | |

Exercise 49

1. (a) 6 (b) 6 (c) 18
(d) 16 (e) 6 (f) 9

Exercise 50

1. (b) 2 in., 2 in., 2 in., 8 in.³
(c) 5 in., 2 in., 4 in., 40 in.³
(d) 3 in., 2 in., 7 in., 42 in.³
(e) 7 in., 3 in., 2 in., 42 in.³
2. 18 cm³ 200 cm³ 126 cm³
192 cm³ 240 cm³

Exercise 51

1. (a) 300 cm³ (b) 800 cm³
2. (a) 400 ml (b) 120 ml
3. (a) 4 liters (b) 3 liters
4. 1 l 200 ml 3 l 600 ml
1 l 200 ml 3 l 600 ml
2 l 160 ml 1 l 440 ml

Review 6

1. (a) 79,031 (b) 55,100
(c) 23.29 (d) 18.21
2. (a) 1 (b) 9
3. (a) \$35,500 (b) 8 m (c) 17 yd
4. (a) $\frac{4}{6}$ (or $\frac{2}{3}$), 1
(b) 3.15, 3.35
5. 3.05
6. 0.4
7. $\frac{5}{7}$
8. $2\frac{2}{5}$
9. (a) 6.66 (b) 0.27
(c) 24 (d) 0.55
10. 9
11. 4.3
12. 1 kg 585 g
13. \$2250
14. \$64.85
15. $\frac{4}{5}$
16. \$2
19. 4 cm^3
20. \$92.80
21. 30 cm
22. 0.72 ft
23. \$21

Review 7

1. (a) 1000 (b) 0.1
2. 40.6
3. 6.0
4. (a) 1, 2, 4, 5, 10, 20
(b) 1, 2, 4
5. 13,600
6. 147.3 lb
7. 4.32
8. $\frac{3}{8}$
9. 1.5
10. (a) 1 l 540 ml
(b) 3650
11. 400 ml
12. 22.92 m
13. 1.3 ft
14. \$12
15. $\frac{2}{3}$
16. \$336
17. 650 yd
18. 2
19. 9 cm^3
20. 360 m^3
21. 132 cm
22. \$15
23. (a) 34
24. 4.3 gal
25. 50 in.^2
26. \$7.60
27. 467