3. Addition and Subtraction of Mixed Numbers (pp. 41-42)

- (a) 29; $5\frac{5}{24}$ (b) 16; 4; $6\frac{1}{3}$
- 1. 5; 27; 32; $5\frac{1}{15}$
- 2. 2; $1\frac{1}{6}$
- 3. (a) 21; $1\frac{11}{18}$
 - (b) 5; 35; 26; $2\frac{13}{15}$

Practice 3C (p. 43)

- 1. (a) $4\frac{2}{9}$ (b) $3\frac{23}{24}$ (c) $4\frac{1}{12}$
- 2. (a) $2\frac{1}{2}$ (b) $2\frac{1}{2}$ (c) $3\frac{7}{12}$
- 3. (d) $4\frac{7}{18}$ (e) $8\frac{1}{3}$ (f) $4\frac{5}{24}$
- 4. (a) $2\frac{1}{2}$ (b) $1\frac{1}{15}$ (c) $2\frac{2}{15}$

- 5. $1\frac{1}{10}$ km
- 7. $1\frac{1}{4}$ {
- 8. $\frac{5}{12}$ hours
- 9. $1\frac{5}{12}$ m

4 Product of a Fraction and a Whole Number (pp. 44-47)

- 1. (a) $\frac{10}{3}$
- (b) $\frac{10}{3}$

- 3. 10 (b) 700 (e) 9 4. (a) 30
- (c) 400
- (d) 300 * (g) 2 * (h) 4
- (f) 10
- 5. 45 min; 2 h 45 min
- 6. (a) 2 h 20 min
 - (b) 4 yd 2 ft [4 min 40 s]
 - (c) 5 gal 1 qt [5 m 25 cm] (d) 3 km 500 m
 - (e) 14 £ 900 ml
 - (f) 6 years 3 months
- 7. 400 m; 3400 m
- 8. 48 h; 6 h; 54 h

- (b) 24 [1900] 9. (a) 250 (c) 14 [84] (d) 33
 - (e) 1300 (f) 260 (g) 2100 (i) 69 [*575*] (h) 200
- (b) $\frac{3}{5}$ (c) $\frac{3}{10}$ 10. (a) $\frac{2}{5}$
 - (d) $\frac{3}{4}$ (e) $\frac{5}{12}$

Practice 3D (p. 48)

- (b) $6\frac{1}{2}$ 1. (a) 7 (c) 16
- (b) $26\frac{2}{3}$ (c) $8\frac{1}{3}$ 2. (a) 24
- 3. (a) 49 (b) 52 (c) 45
- (b) 600 g 4. (a) 40 min (b) 600 g 5. (a) 80 cm (b) 900 m
- 6. (a) 8 years 9 months (b) 3 \ 600 ml
- 7. (a) 9 lb 4 oz [9 kg 250 g] (b) 5 h 20 min
- 8. (a) 42 in. [350 cm]
- (b) 17 qt [255 min] 9. (a) 2,700 m (b) 112 h
- 10. (a) $\frac{9}{10}$ (b) $\frac{3}{8}$
- 11. (a) $\frac{3}{4}$ (b) $\frac{5}{12}$

5 Product of Fractions (pp. 49-51)

- 2. $\frac{9}{20}$ 3. $\frac{5}{18}$

- $\frac{1}{12}$ 5. $\frac{8}{15}$ 6. $\frac{3}{8}$
- 7. (a) $\frac{1}{4}$ (b) $\frac{1}{4}$ (c) $\frac{2}{9}$ (d) $\frac{1}{6}$ (e) $\frac{5}{8}$ (f) $\frac{3}{10}$

- (g) $\frac{5}{18}$
- (h) $\frac{2}{7}$

- (j) 10
- (k) 12

Practice 3E (p. 52)

- 1. (a) $\frac{1}{8}$ (b) $\frac{5}{18}$
- 2. (a) $\frac{1}{5}$ (b) $\frac{2}{3}$

- (b) $\frac{1}{2}$

- 4. (a) 12
- (b) $2\frac{2}{3}$
- (c) 4

- 5. (a) 5
- (b) 4
- (c) 5

- $\frac{3}{10}$ qt [ℓ]
- $\frac{3}{5}$ kg $\frac{1}{6}$

6 Dividing a Fraction by a Whole Number (pp. 53-54)

- 2. (a) $\frac{1}{8}$
- (b) $\frac{1}{15}$
- (c) $\frac{1}{5}$; $\frac{1}{6}$ (d) $\frac{1}{3}$; $\frac{3}{10}$
- 3. (a) $\frac{1}{6}$

- (e) $\frac{3}{7}$

- (h) $\frac{1}{16}$

Practice 3F (p.55)

- 1. (a) $\frac{1}{9}$
- (b) $\frac{5}{18}$

- (b) $\frac{1}{20}$

- 3. (a) $\frac{2}{15}$
- (b) $\frac{1}{9}$

- 5.
- $\frac{1}{10}$ pt [ℓ]

7 Word Problems (pp. 56-59)

- 75 1. 36
- 2. 20

- 3. 480
- 60
- 50
- \$1000

Practice 3G (p. 60)

- 42
- 2. \$70
- 3. \$180
- 4. 40
- 5. 24
- 6. 192
- (a) $\frac{3}{16}$
- (b) \$3200

Review A (pp. 61-64)

- 1. (a) 515,407 (b) 4,600,000
- 2. (a) eight hundred seventy-two thousand, five hundred twenty
 - (b) one million, thirty-four thousand
 - (c) four million, five hundred thousand
 - (d) one hundred sixty-two thousand, three
- 3. 9,000,000
- 4. 5,164,000
- 5. (a) \$438,000 (b) 43,000 km
- 281,000
- 7. \$2,356,000
- 8. (a) 1, 2, 4, or 8
 - (b) Any multiple of 40
- (a) 5000
- (b) 35,000
- (c) 3000
- (d) 8000
- 10. 4200; 6000
- 11. (a) 21,000
 - (b) 300,000 (d) 90
 - (c) 700
- 12. (a) 1,590,000 (b) 4,980,000
 - (c) 2,752,000
 - (d) 16
- (e) 16 r10
- (b) 3900

(f) 12

(f) 12 r13

- 13. (a) 1008 (c) 19,680
- (d) 14 14. (a) 79
- (e) 24
- (c) 22
- (b) 54 (d) 32
- (e) 23
- (f) 9
- (g) 40
- (h) 9
- 15. (a) $\frac{3}{4}$
- (c)
- 16. (a)