17. (a) $3\frac{1}{3}$ (b) $4\frac{1}{2}$
(c) 11 (d) $3\frac{3}{4}$

18. (a) $\frac{6}{8}, \frac{9}{12}, \frac{12}{16}\ldots$
(b) $\frac{1}{3}, \frac{4}{12}, \frac{6}{18}\ldots$
(c) $\frac{10}{18}, \frac{15}{27}, \frac{20}{36}\ldots$
(d) $\frac{22}{28}, \frac{33}{42}, \frac{44}{56}\ldots$

19. (a) $\frac{2}{3}$ (b) $\frac{5}{18}$
(c) $3\frac{1}{2}$ (d) $2\frac{6}{7}$

20. (a) $\frac{3}{2}$ (b) $2\frac{1}{2}$ (c) 4
(d) $1\frac{6}{7}$ (e) $4\frac{2}{3}$ (f) $\frac{16}{5}$

21. (a) $1\frac{5}{8}, 1\frac{3}{4}, \frac{9}{4}, \frac{9}{2}$
(b) $1\frac{2}{8}, 1\frac{2}{3}, \frac{8}{2}, \frac{36}{5}$

22. $\frac{7}{9}$

23. 13

25. (a) $1\frac{7}{12}$ (b) $3\frac{19}{24}$ (c) $8\frac{3}{10}$
(d) $5\frac{1}{7}$ (e) $4\frac{1}{12}$ (f) $3\frac{11}{15}$

25. (a) $1\frac{2}{5}$ (b) 15 (c) 14
(d) $\frac{2}{3}$ (e) $\frac{7}{12}$ (f) $\frac{8}{15}$
(g) $\frac{1}{5}$ (h) $\frac{7}{16}$ (i) $\frac{1}{21}$

26. (a) 60 cm (b) 1 kg 700 g
* (c) 2 lb 12 oz

27. (a) $\frac{1}{3}$ (b) $\frac{8}{15}$ * (c) $\frac{1}{7}$

28. 25
29. 354
30. 45 cm
31. $347
32. 192
33. $1120
34. $\frac{7}{8}$
35. $\frac{7}{10}$ kg
36. 18
37. $1\frac{1}{2}$ ℓ
38. $\frac{3}{20}$ kg
39. $\frac{1}{8}$
40. (a) $\frac{2}{5}$ (b) $1500
41. 2 m
42. 896

Unit 4 - Area of Triangle

1 Finding the Area of a Triangle (pp. 65-70)

1. (a) 24 (b) 40 (c) 60
2. (a) 20 cm^2 (b) 54 $in.^2$ [cm^2]
(c) $31\frac{1}{2}$ m^2 (d) 220 ft^2 [m^2]
3. (a) 630 yd^2 [m^2]
(b) 96 cm^2
(c) 42 m^2 (d) 15 cm^2
4. (a) 120 cm^2 (b) 36 m^2
5. (a) 68 cm^2 (b) 240 m^2
(c) 224 cm^2

Practice 4A (p. 70)

1. A 21 cm^2 B 22 cm^2
C 36 m^2 D 49 m^2
2. 150 cm^2
3. 144 cm^2
4. (a) 63 cm^2 (b) 5104 m^2

Unit 5 - Ratio

1 Finding Ratio (pp. 71-74)

1. 1 : 3
2. 2 : 3
3. 2 : 5; 5 : 2
4. 3 : 2
5. 3 : 7
6. 5 : 4
7. 4 : 6
8. 3 : 8
9. 5 : 7

2 Equivalent Ratios (pp. 75-78)

1. (a) 2 : 5 (b) 2 : 3
2. (a) 4 : 5 (b) 5 : 3
(c) 1 : 4 (d) 3 : 2
3. 5 : 4
4. 5 : 3
5. 3; 12; 12
6. 5; 20; 20
7. 8; 64; 64

Practice 5A (p. 79)

1. (a) 1 : 2 (b) 3 : 2
2. 4 : 3
3. 7 : 3
4. 14 ℓ
5. 24 m
6. 40 kg
7. 350

3 Comparing Three Quantities (pp. 80-81)

(a) 2 : 1 (b) 6 : 3 : 2

1. (a) 6 : 3 : 2 (b) 4 : 2 : 3
2. 2; 10; 10

Practice 5B (p. 82)

1. 5 : 12
2. 12 : 4 : 7
3. 4 cups
4. 77
5. 5 : 6
6. (a) 30 cm (b) 20 cm
7. (a) 4 m^3 (b) 8 m^3
8. 102 kg
9. $75

Unit 6 - Angles

1 Measuring Angles (pp. 83-84)

1. 123°
2. 240°
3. 325°
2. (a) 135° (b) 45°
3. (a) north-east (b) north-west

2 Finding Unknown Angles (pp. 85-88)

146; 34; 146
85; 45; 180
150; 150; 360

1. (a) 48 (b) 143 (c) 345
2. x = 134°; y = 46°; z = 134°
3. ∠COB = 155°
4. ∠DBE = 90°
5. ∠x = 35°
6. ∠m = ∠n = 40°
7. ∠a = 29° ∠b = 145° ∠c = 85°

Review B (pp. 89-92)

1. 19,000
2. $43,000
3. (a) 6700 (b) 72,800
   (c) 350,000 (d) 430
   (e) 580 (f) 628
4. 24 5. $\frac{4}{15}$ 6. $\frac{1}{4}$
7. 2 h 15 min
8. 60 cm
9. (a) $105 (b) $80 (c) $165
10. 3 m
11. $\frac{1}{10}$ m
12. 48
13. $1\frac{1}{5}$ kg
14. 375
15. $504
16. $195
17. $45
18. $57
19. $36
20. 300 m^2 70 m
21. $120
22. 14 cm
23. (a) 44 m 84 m^2
    (b) 58 cm 140 cm^2
24. (a) ∠a = 160°
    (b) ∠b = 205°
25. (a) ∠x = 207°
    (b) ∠x = 47°
26. (a) 75 cm^2 (b) 42 cm^2 (c) 18 cm^2
27. 54 m^2
28. (a) 24 cm^2 (b) 25 cm^2
    (c) 240 cm^2 (d) 10 cm^2

***Review C (pp. 93-96)**

1. 5800 mi
2. 121 lb
3. 5 qt
4. $1\frac{1}{4}$ ft
5. 0.8 qt or $\frac{4}{5}$ qt
6. $10\frac{2}{3}$ oz
7. 1728 in^3
8. (a) $\frac{1}{6}$ (b) $\frac{3}{8}$ (c) $\frac{1}{2}$
9. 9 in.
10. $4\frac{4}{5}$ lb
11. 84 yd 360 yd^2
12. (a) 42 ft 68 ft^2
    (b) 40 in. 69 $in.^2$
13. 2 gal 4 c
14. 1.74 ft

[illegible]
[illegible]
[illegible] (b) 2 ft 4 in.
(c) 4 ft 9 in.
[illegible]
[illegible]
[illegible]
[illegible] 2 c
22. (a) 25 yd 2 ft
(b) 17 lb 10 oz
(c) 23 gal 3 qt
(d) 5 ft 10 in.
23. (a) 1 yd 2 ft
(b) 0 lb 7 oz
(c) 2 gal 1 qt
(d) 0 ft 8 in.

24. 4 ft 6 in.
25. (a) 8 yd
(b) 28 in. (2 ft 4 in.)
(c) 21 oz (1 lb 5 oz)
(d) 10 gal
26. 8 lb 5 oz
27. 3.7 mi
28. 0.46 lb
29. $5.65
30. 258.8
31. 37 in.
32. 75 lb