

Pages 4–5

- 100, 90, 5
 - 40 000, 6000, 300
 - 40 000, 9000, 800, 7
 - 200 000, 80 000, 3000, 900, 50
 - 700 000, 3000, 500, 90, 3
- 208, 308, 408
 - 6205, 6305, 6705
 - 11, -10, -17
 - 7765, 7735, 7675
 - 5, 10, 25
- 468, 476
 - 3165, 3145
 - 1124, 1140
- 31 145
 - 95 035
 - 128 360
 - 14 223
- Top row should be completed as follows: 30, 41
Bottom row should be completed as follows: 234 000, 93 000, 345 000
- 42 660
 - 20
 - 60 538
 - 93 458

Pages 6–7

- >
 - <
 - <
 - >
- 202 365, 221 010
- 425 009, 425 010, 428 309, 428 355
 - 230 980, 238 970, 240 500, 245 000
 - 863 015, 863 501, 863 510, 866 351
 - 513 629, 513 962, 531 926, 531 962
- 6790
 - 3590
 - 29 140
 - 83 450
 - 276 830
 - 579 360
- 2200
 - 6800
 - 34 300
 - 61 500
 - 844 000
 - 286 500
- 5000
 - 7000
 - 36 000
 - 44 000
 - 189 000
 - 208 000
- 10 000
 - 20 000
 - 60 000
 - 100 000
 - 280 000
 - 820 000
- 100 000
 - 400 000
 - 500 000
 - 700 000
 - 900 000
 - 900 000

Pages 8–9

- 13, 130, 1300, 4013, 6130
 - 14, 140, 1400, 74, 7140
 - 11, 110, 1100, 9100, 7110
 - 15, 150, 1500, 95, 5150
- 64
 - 90
 - 81
 - 104, 53, 51
 - 93, 42, 51
 - 81, 40, 41
- 4408
 - 3407
 - 4406
 - 5407
 - 7409
- There are many possible answers. Check all additions total 9999.

Pages 10–11

- 90
 - 170
 - 145
 - 95
 - 185
- 57
 - 78
 - 71
 - 38
 - 24
- 3100 and 2800
 - 3900
 - 1200 and 2800
- Bottom row should be completed as follows: 260, 170, 125, 75, 165
 - Bottom row should be completed as follows: 190, 260, 30, 120, 350, 240

Pages 12–13

- 100 ml
 - 1600 mm
 - 500 g
 - 755
- 310 km
 - Chang Jiang
 - Nile and Mississippi

- 800
- 1400 g, 5000 g

Page 14

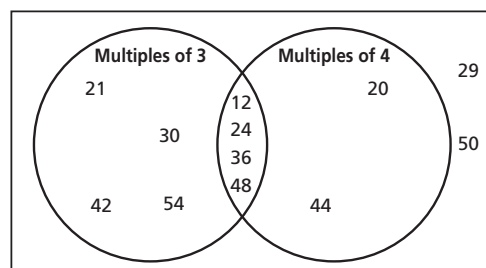
- 58 830, 927 020
- four hundred thousand
- 26 000, 519 000
- 26 703, 32 607
- 15
- 4995
- 261 410
- 982 799
- 44 072
- 12 378
- 244 503
- <, >
- 59 820, 60 820
- 3, 17
- seven hundred thousand
- 17 000, 333 000
- seven thousand
- 205 400, 63 100
- <
- 6, -14

Page 15

- 40
- 110, 6100
- 275
- 5900
- 7694
- 35
- 4100 g
- 84
- 5830 litres
- 4400 litres
- 5281 + 3607
- 14
- 65
- 5013
- 1050 ml
- 8810
- 5700 and 7200
- 150
- 70
- 1270 km

Pages 16–17

1.



Answers

2. a) 45 b) 48 c) 90 d) 120
 3. a) (1, 27), (3, 9)
 b) (1, 60), (2, 30), (3, 20), (4, 15), (5, 12), (6, 10)
 c) (1, 42), (2, 21), (3, 14), (6, 7)
 d) (1, 48), (2, 24), (3, 16), (4, 12), (6, 8)
 4. a) 8 b) 5 c) 12, 9 d) 12, 5
 5. 1 and 3
 6. a) **Prime numbers:**
 19 → 1, 19; 23 → 1, 23;
 5 → 1, 5; 37 → 1, 37

Square numbers:

- 16 → 1, 2, 4, 8, 16
 9 → 1, 3, 9
 25 → 1, 5, 25
 36 → 1, 2, 3, 4, 6, 9, 12, 18, 36

- b) There are only two factors.
 c) There is an odd number of factors.

Pages 18–19

1. a) 63, 6300 b) 18, 1800 c) 48, 4800
 d) 81, 8100 e) 56, 5600 f) 108, 10800

2.

x	32	54	45
6	192	324	270
3	96	162	135
8	256	432	360

3. a) 138 b) 195 c) 168 d) 216
 e) 243 f) 520
 4. a) 252 b) 240 c) 432 d) 168
 5. a) $65 \times 9 = 585$ b) $69 \times 5 = 345$ c) $56 \times 9 = 504$

Pages 20–21

1. a) 9 b) 7 c) 36 d) 3 e) 7 f) 18
 g) 3 h) 9 i) 8 j) 96 k) 10 l) 72
 2. a) 24 b) 21 c) 31 d) 14 e) 16
 f) 28 g) 21 h) 51
 3. a) $11r \ 3$ or $11\frac{3}{4}$ or 11.75 b) $16r \ 3$ or $16\frac{3}{5}$ or 16.6
 c) $45r \ 1$ or $45\frac{1}{2}$ or 45.5 d) $9r \ 7$ or $9\frac{7}{10}$ or 9.7
 e) $17r \ 1$ or $17\frac{1}{4}$ or 17.25 f) $19r \ 4$ or $19\frac{4}{5}$ or 19.8
 4. a) Bottom row should be completed as follows:
 300, 700, 900, 1000, 1200
 b) Bottom row should be completed as follows:
 400, 200, 500, 800, 1000, 1200

Pages 22–23

1. a) $1\frac{2}{3}, \frac{5}{3}$ b) $3\frac{1}{2}, \frac{7}{2}$ c) $2\frac{3}{5}, \frac{13}{5}$ d) $2\frac{1}{6}, \frac{13}{6}$
 2. a) $\frac{9}{4}$ b) $\frac{13}{3}$ c) $\frac{13}{8}$ d) $\frac{15}{4}$
 e) $\frac{12}{5}$ f) $\frac{7}{6}$
 3. a) $1\frac{1}{2}$ b) $1\frac{1}{4}$ c) $3\frac{1}{3}$ d) $1\frac{1}{7}$
 e) $7\frac{1}{2}$ f) $5\frac{1}{3}$
 4. A $1\frac{3}{4}, \frac{7}{4}$ B $2\frac{1}{4}, \frac{9}{4}$ C $2\frac{1}{2}, \frac{5}{2}$ D $3\frac{1}{4}, \frac{13}{4}$
 E $3\frac{3}{4}, \frac{15}{4}$

5. $2\frac{1}{4}, \frac{12}{4}, \frac{14}{4}, 3\frac{3}{4}, 4\frac{1}{2}, \frac{11}{2}$

Pages 24–25

1. a) $\frac{1}{3}$ b) $\frac{1}{2}$
 c) $\frac{1}{3}$ d) $\frac{1}{6}$
 2. a) < b) <
 c) > d) <
 3. a) $\frac{1}{2}, \frac{1}{5}, \frac{1}{10}, \frac{1}{4}, \frac{3}{4}$ b) $\frac{1}{10}, \frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{1}{5}$
 c) $\frac{1}{4}, \frac{1}{2}, \frac{1}{10}, \frac{3}{4}, \frac{1}{5}$
 4. a) $\frac{1}{10}$ of 10 kg b) thirds
 c) more time sleeping d) more spotted fish

Pages 26–27

1. $1\frac{3}{4}, 1\frac{1}{4}$
 $2\frac{3}{10}, \frac{7}{10}$
 $1\frac{7}{8}, 1\frac{1}{8}$
 $2\frac{1}{3}, \frac{2}{3}$
 $1\frac{1}{3}, 1\frac{2}{3}$
 2. a) $\frac{8}{4}$ (or 2) b) $\frac{6}{10}$ (or $\frac{3}{5}$) c) $\frac{9}{5}$ (or $1\frac{4}{5}$) d) $\frac{8}{10}$ (or $\frac{4}{5}$)
 3. a) $\frac{6}{4}$ or $1\frac{1}{2}$ b) $\frac{7}{6}$ or $1\frac{1}{6}$ c) $\frac{11}{10}$ or $1\frac{1}{10}$ d) $\frac{6}{5}$ or $1\frac{1}{5}$
 4. a) $\frac{2}{4}$ or $\frac{1}{2}$ b) $\frac{2}{3}$
 5. a) $\frac{7}{10}$ b) $\frac{1}{8}$
 6. a) 7 b) $\frac{6}{10}$ m (or $\frac{3}{5}$ m) c) $\frac{8}{9}$ d) $\frac{5}{12}$ litres

Page 28

1. 17 2. 7 3. (3, 6) 4. 54, 5400
 5. 140 6. 27.5 7. 8000 8. 21
 9. 4 10. 2800 11. 60 12. 3
 13. 371 14. 4 15. > 16. 120
 17. $14\frac{2}{5}$ 18. 12 19. 8 20. 4

Page 29

1. 4 2. $\frac{1}{4}$
 3. $1\frac{1}{2}$ and $3\frac{1}{2}$ 4. $\frac{9}{4}, 2\frac{1}{4}$
 5. $1\frac{1}{4}$ (or $2\frac{3}{4}$) 6. $\frac{27}{10}$
 7. $1\frac{1}{3}, \frac{8}{3}$ 8. 5
 9. $\frac{1}{10}, \frac{1}{7}, \frac{1}{4}, \frac{1}{2}$ 10. $1\frac{4}{5}, \frac{9}{5}$
 11. $\frac{7}{6}$ or $1\frac{1}{6}$ 12. 9
 13. $\frac{7}{9}$ 14. 20p
 15. $\frac{5}{2}, 2\frac{1}{2}$ 16. $\frac{14}{9}$ or $1\frac{5}{9}$
 17. more blue balloons 18. $1\frac{2}{3}$
 19. 84 20. <

Pages 30–31

1. a) 3.4 b) 86 c) 12.28 d) 8.55
 e) 37.2 f) 16.2
 2. a) 8.35 b) 1.9 c) 22.76 d) 2.845
 e) 0.093 f) 1.284
 3. a) 368 b) 30 c) 100.5 d) 293.4
 e) 65.5 f) 4638.5

4. a) 0.27 b) 3.42
 c) 0.538 d) 0.063
 e) 0.279 f) 1.452
5. 0.855 kg, 0.95 kg, 8.245 kg, 8.3 kg, 8.455 kg, 8.52 kg
6. a) 3.3 b) 3.8 c) 3.1 d) 3.6
 e) 3.9 f) 3.4

Pages 32–33

1. a) 50% b) 25% c) 10% d) 20%
 e) 60% f) 72% g) 58% h) 65%
 i) 80% j) 30% k) 34% l) 55%
2. a) $\frac{1}{10}$ b) $\frac{4}{5}$ c) $\frac{1}{2}$ d) $\frac{3}{10}$
 e) $\frac{3}{5}$ f) $\frac{1}{4}$ g) $\frac{1}{20}$ h) $\frac{9}{10}$
 i) $\frac{3}{4}$ j) $\frac{2}{5}$ k) $\frac{7}{10}$ l) $\frac{1}{100}$
3. a) 20% b) 15% c) 35% d) 60%
 e) 50% f) 30% g) 75% h) 90%
 i) 85% j) 10% k) 5% l) 70%
4. a) 0.3 b) 0.45 c) 0.65 d) 0.8
 e) 0.9 f) 0.25 g) 0.05 h) 0.15
 i) 0.3 j) 0.55 k) 0.35 l) 0.85
5. a) 15%, 20%, 25%, $\frac{9}{25}$, $\frac{6}{10}$, $\frac{4}{5}$
 b) 10%, $\frac{1}{4}$, 40%, $\frac{23}{50}$, 60%, $\frac{7}{10}$
 c) $\frac{1}{50}$, 3%, $\frac{1}{10}$, $\frac{3}{20}$, 16%, 50%

Pages 34–35

1. a) $0.7 \times 5 = 3.5$ b) $0.8 \times 3 = 2.4$
 c) $2.4 \times 6 = 14.4$ d) $1.4 \times 9 = 12.6$
 e) $2.3 \times 8 = 18.4$ f) $4.1 \times 5 = 20.5$
 g) $0.9 \times 5 = 4.5$ h) $1.8 \times 6 = 10.8$
2. a) 4.5 b) 3.6 c) 5.6 d) 9.2
 e) 7.1 f) 10.3
3. a) 4.4 b) 0.8 c) 5.4 d) 1.4
 e) 2.5 f) 4.8
4. a) $0.3 \times 6 = 1.8$
 b) $3.4 \times 7 = 23.8$
 c) $1.9 \times 5 = 9.5$
 d) $2.6 \times 4 = 10.4$

Pages 36–37

1. a) 64 b) 121
 c) 49 d) 36
 e) 81 f) 100
 g) 25 h) 144
2. 9, 25, 49, 64, 81, 100, 121, 144
3. The square numbers are all in a diagonal line.
4. a) 4 b) 9 c) 16 d) 25
 e) 36 f) 49 g) 64 h) 81
 i) 100
5. They are all square numbers.

Pages 38–39

1. a) 15 cm^2 , 16 cm b) 24 cm^2 , 20 cm
 c) 25 cm^2 , 20 cm d) 18 cm^2 , 18 cm
 e) 36 cm^2 , 24 cm f) 32 cm^2 , 24 cm
2. Area column should be completed as follows:
 36, 40, 48, 49, 40, 45, 52, 100, 54, 121, 64, 400
 Perimeter column should be completed as follows:
 30, 28, 28, 28, 26, 36, 34, 50, 42, 44, 40, 80

3. a) 4 cm b) 16 cm
 4. a) 9 cm b) 81 cm^2

Pages 40–41

1. a) 6.05 p.m. b) 9.15 a.m. c) 10.30 a.m.
 d) 3.35 p.m. e) 8.55 p.m.
2. a) 8.15 a.m. b) 1 hour 45 minutes (or $1\frac{3}{4}$ hours)
 c) 4 hours 50 minutes d) 11.50 a.m.
 e) 6.15 a.m.
3. a) Bus D b) Bus B

Page 42

1. 50%
 2. 13.6
 3. 54.32
 4. 24%, $\frac{7}{25}$
 5. $\frac{3}{10}$
 6. $0.8, \frac{4}{5}$
 7. <
 8. 0.73
 9. 12.8
 10. 5.29 kg, 0.925 kg
 11. >
 12. 90%
 13. 87
 14. 4.2, 4.0 (or 4)
 15. 2.8
 16. 0.12
 17. 0.65
 18. 6.19
 19. 1.5, 1.6
 20. 0.5

Page 43

1. 16
 2. 12 m^2
 3. 4.05 p.m.
 4. Area = 32 cm^2 ;
 Perimeter = 24 cm
 5. 1 hour 25 minutes
 6. 7 cm
 7. 11.40 a.m.
 8. 81
 9. 80 cm
 10. 10 cm
 11. 36
 12. 1 hour 40 minutes
 13. Area = 27 cm^2 ;
 Perimeter = 24 cm
 14. 6.10 p.m.
 15. 144
 16. 8 cm
 17. 25
 18. Saturday
 19. 45 minutes
 20. Sunday

