

Pages 4–5

- a) 24, 36, 48 b) 50, 75, 175
 c) 36, 63, 72 d) 28, 35, 42
 e) 4000, 5000, 6000
- a) 81, 76 b) 86, 89 c) 53, 47
 d) 480, 530 e) 159, 157
- 11, -6, -1, 3, 12
 -15, -9, -7, -2, 8
- a) 600 b) 953 c) 452 d) 689
- a) 982, 992, 1002 b) 4010, 4020, 4030
 c) 959, 1059, 1159 d) 7023, 7123, 7223
 e) 1519, 2519, 3519 f) 7795, 8795, 9795

Pages 6–7

- a) 10, 2 b) 1000, 400
 c) 700, 3 d) 6000, 800, 40
 e) 8000, 40, 7
- a) 4532 b) 1026 c) 6703 d) 7599
- a) 6528 b) 1985 c) 5731
- a) 3345 b) 6756 c) 5251 d) 5003
- a) 2305 b) 1743 c) 2168
- a) – b) Check each number and word matches the beads drawn on each abacus.

Pages 8–9

- a) < b) >
 c) > d) <
- 1479, (1974)
- a) 2087, 2900, 3149, 3150
 b) 5904, 5933, 6102, 6244
 c) 8003, 8030, 8300, 8303
 d) 8599, 8959, 9132, 9213
- Everest – 8848 m; K2 – 8611 m; Lenin Peak – 7134 m; Aconcagua – 6960 m; McKinley – 6194 m; Kilimanjaro – 5893 m; Cook – 3766 m; Chappal Waddi – 2409 m

Pages 10–11

- a) 82 b) 67
 c) 43 d) 93
 e) 71 f) 72
 g) 71 h) 87
- a) 131 b) 114
 c) 115 d) 108
 e) 424 f) 317
 g) 261 h) 319
- a)

+	80	60	90	70
253	333	313	343	323
185	265	245	275	255
693	773	753	783	763

b)

+	45	38	52	127
35	80	73	87	162
26	71	64	78	153
241	286	279	293	368

- 45 + 38 = 83, 56 + 14 = 70, 19 + 44 = 63,
 17 + 35 = 52
- 60

Pages 12–13

- a) 37 b) 16
 c) 39 d) 47
 e) 29 f) 18
- a) 95 b) 78
 c) 72 d) 71
 e) 78
- a) Bottom row should be completed as follows:
 93, 35, 62, 41, 79
 b) Bottom row should be completed as follows:
 650, 150, 450, 550, 350
- a) 45 cm b) 35 cm
 c) 55 cm d) 20 cm
 e) 30 cm

Page 14

- 3, 7
- 700, 30
- 300, 250
- 1476
- 167, 162
- 1596, 1956, 1965
- 2371
- 410
- 3440, 3450
- 5476, (7456)
- 230
- 32, 44
- 982, 1082
- 8915
- 8351
- 6701
- 8, –5
- 100, 104
- >, <
- 4470

Page 15

- 80
- 61
- 80
- 323
- 618
- 80
- 155
- 56
- 250, 550
- 33
- 53
- 350 ml
- 86
- 49
- 521, 237
- 126
- 81
- 57
- 99
- 62

Pages 16–17

- a) $7 \times 5 = 35$, $5 \times 7 = 35$, $35 \div 5 = 7$, $35 \div 7 = 5$
 b) $6 \times 7 = 42$, $7 \times 6 = 42$, $42 \div 6 = 7$, $42 \div 7 = 6$
 c) $9 \times 4 = 36$, $4 \times 9 = 36$, $36 \div 9 = 4$, $36 \div 4 = 9$
 d) $8 \times 6 = 48$, $6 \times 8 = 48$, $48 \div 6 = 8$, $48 \div 8 = 6$
 e) $11 \times 12 = 132$, $12 \times 11 = 132$, $132 \div 11 = 12$,
 $132 \div 12 = 11$
 f) $7 \times 9 = 63$, $9 \times 7 = 63$, $63 \div 7 = 9$, $63 \div 9 = 7$

Answers

2. a) 54 b) 9
c) 6 d) 9
e) 7 f) 77
3. a) 9, 18, 36 b) 15, 30, 60
c) 24, 48, 96 d) 12, 24, 48
e) 27, 54, 108 f) 21, 42, 84
4. 88, 28, 27, 42
72, 22, 36, 80
21, 18, 18, 121
60, 56, 81, 48
5. a) 56 b) 7 c) 21 d) 9

Pages 18–19

1. a) 36, 3600 b) 48, 4800
c) 56, 5600 d) 27, 2700
e) 49, 4900 f) 48, 4800

2.

×	30	60	80
20	600	1200	1600
90	2700	5400	7200
40	1200	2400	3200

3. a) 600 b) 9
c) 2400 d) 500
e) 2800 f) 300
4. a) 60 b) 240
c) 120 d) 90
5. a) Factors of 25: 5, 5
Factors of 4: 2, 2 $5 \times 5 \times 2 \times 2 = 100$
b) Factors of 15: 3, 5
Factors of 8: 2, 4 $3 \times 5 \times 2 \times 4 = 120$
c) Factors of 35: 5, 7
Factors of 6: 2, 3 $5 \times 7 \times 2 \times 3 = 210$
d) Factors of 45: 5, 9
Factors of 4: 2, 2 $5 \times 9 \times 2 \times 2 = 180$

Pages 20–21

1. a) 15 b) 17 c) 19
d) 12 e) 13 f) 23
g) 13 h) 28
2. no remainder $\rightarrow 84 \div 4$
1 $\rightarrow 61 \div 3$
2 $\rightarrow 74 \div 6$
3 $\rightarrow 78 \div 5$
4 $\rightarrow 92 \div 8$
5 $\rightarrow 86 \div 9$
3. a) Bottom row should be completed as follows:
500, 700, 400, 800, 900
b) Bottom row should be completed as follows:
600, 300, 800, 400, 700
4. a) 24 b) 18
c) 14 d) 5 piles, 5 tyres left over

Pages 22–23

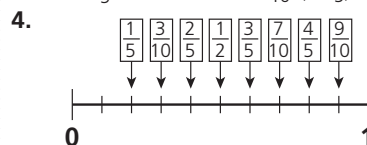
1. a) $\frac{3}{4}, \frac{6}{8}$ b) $\frac{2}{3}, \frac{6}{9}$
c) $\frac{4}{5}, \frac{8}{10}$ d) $\frac{2}{5}, \frac{6}{15}$
2. Red = $\frac{2}{10}$ Yellow = $\frac{5}{10}$ Green = $\frac{3}{10}$
 $\frac{5}{10} > \frac{3}{10} > \frac{2}{10}$
3. Red = $\frac{1}{15}$ Yellow = $\frac{4}{15}$ Green = $\frac{8}{15}$ Blue = $\frac{2}{15}$
 $\frac{1}{15} < \frac{2}{15} < \frac{4}{15} < \frac{8}{15}$
4. a) $\frac{6}{10}, \frac{9}{15}, \frac{12}{20}, \frac{15}{25}, \frac{18}{30}$
b) $\frac{6}{8}, \frac{9}{12}, \frac{12}{16}, \frac{15}{20}, \frac{18}{24}$
c) $\frac{14}{20}, \frac{21}{30}, \frac{28}{40}, \frac{35}{50}, \frac{42}{60}$
d) $\frac{6}{16}, \frac{9}{24}, \frac{12}{32}, \frac{15}{40}, \frac{18}{48}$

Pages 24–25

1. a) 18 b) 21
c) 9 d) 12
2. a) 11, 22 b) 12, 36
c) 7, 28 d) 6, 30
e) 8, 56 f) 3, 15
3. $\frac{3}{5}$ of 40 = 24, $\frac{3}{4}$ of 40 = 30, $\frac{5}{8}$ of 40 = 25, so $\frac{3}{4}$ of 40
4. a) > b) >
c) < d) >
e) < f) <
5. a) silver \rightarrow 24 b) white \rightarrow 10
c) red \rightarrow 18 d) black \rightarrow 8

Pages 26–27

1. a) $\frac{4}{100}, 0.04$ b) $\frac{9}{100}, 0.09$
c) $\frac{15}{100}, 0.15$ d) $\frac{2}{10}, 0.2$
e) $\frac{22}{100}, 0.22$ f) $\frac{28}{100}, 0.28$
2. a) $\frac{2}{4}$ or $\frac{1}{2}$, or 0.5 b) $\frac{4}{6}$ or $\frac{2}{3}$, 0.66 (recurring)
c) $\frac{11}{10}$ (or $1\frac{1}{10}$) d) $\frac{7}{5}$ (or $1\frac{2}{5}$)
3. a) $\frac{2}{8}$ (or $\frac{1}{4}$) b) $\frac{2}{10}$ (or $\frac{1}{5}$)
c) $\frac{3}{5}$ d) $\frac{6}{10}$ (or $\frac{3}{5}$)



Page 28

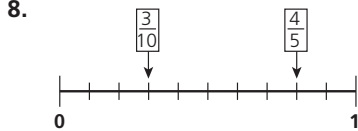
1. 72 2. 36, 3600
3. 4 4. 84
5. 8 6. 240g
7. 18 8. 1200
9. 4 packs, 8 balloons left over 10. 900
11. Factors of 14: 2, 7 Factors of 6: 2, 3
 $2 \times 7 \times 2 \times 3 = 84$

12. 4200
 14. 64
 16. 700
 18. 96
 20. $r = 1$
13. 18, 36, 72
 15. 7 r 3
 17. 3000
 19. 14

Page 29

1. Any 8 parts shaded; any 4 parts shaded

2. $<$
 3. $\frac{9}{10}, \frac{2}{10}$
 4. 2
 5. $\frac{2}{3}, \frac{4}{6}$
 6. $\frac{16}{20}$
 7. $\frac{4}{8}$ (or $\frac{1}{2}$ or $\frac{2}{4}$)



9. $\frac{10}{12}, \frac{15}{18}$
 10. $\frac{4}{10} < \frac{6}{10} < \frac{8}{10}$
 11. $\frac{13}{100}$
 12. $\frac{5}{10}$ or $\frac{1}{2}$
 13. Any 5 parts blue; any 2 parts red
 14. 5, 15
 15. 10 pink, 8 blue and 42 white
 16. $\frac{9}{18}$
 17. $\frac{4}{5}$
 18. $\frac{4}{5}$ of 40
 19. $\frac{5}{10}$ (or $\frac{1}{2}$)
 20. 0.39

Pages 30–31

1. a) 8 b) 91
 c) 356 d) 4.2
 e) 0.7 f) 83.5
2. a) 9.6 b) 0.8
 c) 14.3 d) 0.52
 e) 0.04 f) 0.706
3. a) 194 b) 520
 c) 3495 d) 60
 e) 2 f) 4705
4. a) 6.74 b) 28.9
 c) 0.71 d) 0.352
 e) 0.109 f) 0.4
5. a) $\times 10$ b) $\div 100$
 c) $\times 100$ d) $\div 100$
 e) $\times 10$ f) $\div 100$

Pages 32–33

1. a) 3.5, 5.3, 5.6, 6.3, 6.5
 b) 11.6, 11.8, 12.1, 12.3, 12.5
 c) 22.7, 22.9, 23.1, 23.6, 23.8
 d) 0.25, 0.55, 0.81, 0.85, 0.92
 e) 2.95, 3.17, 3.22, 3.25, 3.27
 f) 8.51, 8.54, 9.06, 9.09, 9.56
2. a) 3 b) 4
 c) 4 d) 5
 e) 6 f) 6

3. a) 1 b) 8
 c) 3 d) 20
 e) 35 f) 26
4. Gold medal – 7.13 m; Silver medal – 7.05 m;
 Bronze medal – 7.04 m; 4th place – 6.91 m;
 5th place – 6.85 m; 6th place – 6.83 m

Pages 34–35

1. a) 1.1 b) 1.3
 c) 1.4 d) 1.4
 e) 1.4 f) 1.5
2. a) 1.4 b) 0.7
 c) 1.4 d) 0.5
 e) 0.8 f) 0.8
3. a) 1.2 b) 0.4
 c) 0.8 d) 1.4
 e) 0.6 f) 0.2
 g) 1.8 h) 1.6
4. a) $1.4 - 0.7 = 0.7$
 b) $1.2 - 0.8 = 0.4$
 c) $\pounds 1.05 + \pounds 1.32 = \pounds 2.37$
 d) $\pounds 2.23 + \pounds 3.41 = \pounds 5.64$

Pages 36–37

1. a) 0.55 m b) 3500 g
 c) 3500 ml d) 128 cm
 e) 4 l 200 ml f) 2 kg 450 g
 g) 8000 m h) 7 cm 5 mm
 i) 3.2 m j) 2 km
2. a) $>$ b) =
 c) $>$ d) $<$
 e) = f) $<$
 g) $>$ h) $>$
3. a) 5 m b) 3 kg
 c) 6 litres d) 17 km
 e) 64 kg f) 5 m
4. 4

Pages 38–39

1. a) $\pounds 1.84$ b) $\pounds 2.52$
 c) $\pounds 1.80$ d) $\pounds 2.37$
2. a) $\pounds 4.60$ b) $\pounds 1.70$
 c) $\pounds 3.90$ d) $\pounds 4.80$
 e) $\pounds 1.10$ f) $\pounds 1.50$
3. a) 20p b) 70p
 c) 5p d) 25p
 e) $\pounds 1.10$ f) 95p

Answers

4.

Ice-lollies

	0	1	2	3	4
0	0	20p	40p	60p	80p
1	50p	70p	90p	£1.10	£1.30
2	£1.00	£1.20	£1.40	£1.60	£1.80
3	£1.50	£1.70	£1.90	£2.10	£2.30
4	£2.00	£2.20	£2.40	£2.60	£2.80

3 ice-creams; 4 ice-lollies

Pages 40–41

- 2.45
 - 10.05
 - 6.40
 - 8.33
 - 1.17
 - 9.59
 - 11.03
 - 6.21
- afternoon
 - morning
 - morning
 - evening
 - afternoon
 - evening
- 19:28
 - 05:17
 - 23:52
- 6.35 a.m.
 - 12.07 p.m.
 - 10.10 p.m.
- 5 minutes
 - 28 days
 - 150 seconds
 - 270 minutes
 - 42 months
 - 8 weeks
 - 10 days
 - 2 hours
 - 1800 seconds
 - 168 hours

Page 42

- 4.6 < 6.4 < 6.7 < 7.4 < 7.6
- 19
- 0.54
- 1.25
- $\times 100, \times 10$
- 14, 1.4
- 0.318
- 5, 11
- 4
- 1.3, 0.7
- 6710
- 13.2
- 1.1
- 1.38 < 1.83 < 3.18 < 8.13 < 8.31
- 0.45
- 1.6
- 10, 12
- \div, \times
- 50.7
- $\div 10, \div 100$

Page 43

- 4 kg 810 g
- 850 mm
- 5 kg
- 1600 ml
- 9.26 a.m., 3.55 p.m.
- 7000 m
- 30 p
- 180 minutes
- 1530 cm
- <, =
- £2.90
- 3 m
- 3.45 p.m.
- 7500 g
- morning
- £4.25
- 24 l, 1 km
- 48 hours
- 11.46 a.m.
- £1.75