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# Answers

## Number Skills Four

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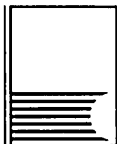
In order to ensure that the content of *Number Skills Four* would be consistent with the requirements of the mathematics National Curriculum, the writing of the book was delayed until the final details of the curriculum were known. As a result, the answers could not be included in the *Fourth Junior Resource Book*, although they will be incorporated at the first reprint. This free booklet presents the answers as they will appear in the reprinted version.

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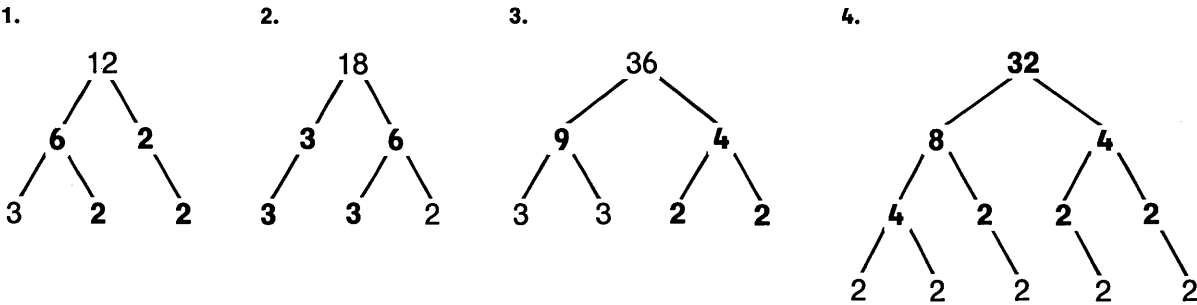
# Answers      Number Skills Four

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1

- 1.  $3 + 1 + 6 + 10 + 7 + 4 + 5 + 8 + 9 = 53$
- 2.  $3 + 1 + 2 + 4 + 5 = 15$
- 3.  $3 + 8 + 2 + 4 + 5 = 22$
- 4.  $3 + 1 + 6 + 10 + 2 + 8 + 5 = 35$

2



3

1.  $(4 \times 2) + (4 \times 5) = 28$

3.  $(7 + 6) - (7 - 1) = 7$

5.  $(8 + 1) \times (9 - 1) = 72$
2.  $(3 \times 3) - (2 \times 3) = 3$

4.  $(9 - 4) \times (9 - 6) = 15$

6.  $(9 + 5) \times (5 - 2) = 42$

page 5

4

1. 4, 8    2. 6, 9    3. 2, 7    4. 4, 9    5. 2, 8

6. 1, 7    7. 7, 5    8. 10, 3    9. 10, 7    10. 6, 2

5

×	2	4	8	9
3	6	12	24	27
5	10	20	40	45
7	14	28	56	63
8	16	32	64	72

×	3	5	6	8
2	6	10	12	16
4	12	20	24	32
7	21	35	42	56
9	27	45	54	72

×	3	5	7	9
3	9	15	21	27
5	15	25	35	45
7	21	35	49	63
9	27	45	63	81

**6**

$$\begin{array}{l} 8 - \boxed{2} = \boxed{6} \\ \boxed{5} + \boxed{4} = 9 \\ \boxed{9} + \boxed{8} = 17 \end{array} \quad \begin{array}{l} \boxed{3} + \boxed{1} = 4 \\ 6 + \boxed{7} = 13 \end{array}$$

page 6

**7**

1. 52, 46, 28, 22, 4      2. 90, 72, 63, 45, 27  
3. 76, 58, 49, 31, 13      4. 64, 56, 40, 24, 16  
5. 30, 24, 18, 12, 6      6. 140, 120, 110, 90, 80

**8**

1. 7, 4, 3, 1, 0      2. 9, 8, 6, 5, 3  
3. 9, 8, 6, 4, 2      4. 9, 8, 7, 5, 1  
5. 10, 8, 6, 4, 2      6. 7, 5, 4, 3, 1

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**9**

1. 27      2. 41      3. 33

**10**

$$\begin{array}{llll} 21 \div \boxed{7} = 3 & 21 \div \boxed{3} = 7 & 16 \div \boxed{4} = 4 & \boxed{56} \div 7 = 8 \\ 56 \div 8 = \boxed{7} & \boxed{60} \div 10 = 6 & \boxed{63} \div 9 = 7 & 54 \div \boxed{6} = 9 \\ \boxed{49} \div 7 = 7 & 81 \div \boxed{9} = 9 & 64 \div 8 = \boxed{8} & 48 \div 8 = \boxed{6} \\ 54 \div 9 = \boxed{6} & 72 \div 9 = \boxed{8} & \boxed{50} \div 5 = 10 & \boxed{42} \div 7 = 6 \\ 32 \div \boxed{8} = 4 & 48 \div 6 = \boxed{8} & 45 \div 9 = \boxed{5} & 36 \div \boxed{4} = 9 \\ \boxed{36} \div 6 = 6 & \boxed{45} \div 5 = 9 & 42 \div \boxed{6} = 7 & \boxed{25} \div 5 = 5 \\ 18 \div \boxed{9} = 2 & 27 \div \boxed{3} = 9 & \boxed{36} \div 9 = 4 & 24 \div \boxed{8} = 3 \end{array}$$

**11**

£2.55, £4.05, £1.38, £1.02, £0.75, £3.22, £0.46, £3.74, £2.94, £2.32

**12**

£1.50,  $1\frac{1}{4}$  m, 30 mins,  $\frac{3}{4}$  kg, 24 cm,  $\frac{1}{2}$  litre, 9 km, 120 g, 125 ml, 14 mins

page 8

**13**

100, 2, 10, 3, 5, 4, 1000, 4, 50, 10

**14**

1 cm, 5 mm; 1 dm, 5 cm; 1 km, 500m; 1 m, 50 cm

15

- 130
- 180
- 90
- 200
- 477
- 99
- 297
- 354
- 1148
- 299
- 906
- 105
- 802
- 920
- 38
- 439
- 59
- 105
- 3500
- 255

16

- 202
- 824
- 1078
- 805
- 375
- 654
- 1101
- 681
- 699
- 564
- 1500
- 521

page 9

17

- 466
- 914
- 800
- 491
- 1275
- 927
- 1048
- 827
- 942
- 1077

18

- £11·56
- £9·89
- £11·47
- £5·49
- 10·45 m
- 11·98 m
- 5·17 m
- 9·95 m

19

- 5·725 kg
- 4·530 kg
- 6·005 kg
- 7·370 kg
- 7·300 l
- 2·075 l
- 6·965 l
- 4·320 l

page 10

20

- 135
- 402
- 104
- 224
- 516
- 278
- 134
- 718
- 238
- 118
- 336
- 253

21

- 535
- 341
- 139
- 157
- 274
- 417
- 61
- 89
- 295
- 241
- 274
- 266

22

- £0·27
- £4·22
- £1·72
- £3·28
- £1·86
- £4·54
- £2·59
- £2·04
- £0·92
- £2·99

23

- 77 cm
- 1·04 m
- 46 cm
- 32 cm
- 1·28 m
- 6 cm
- 97 cm
- 51 cm
- 62 cm
- 1·34 m

page 11

24

- 1. 1095
- 2. 3731
- 3. 1044
- 4. 1518
- 5. 1647
- 6. 2208
- 7. 3792
- 8. 1770
- 9. 5460
- 10. 1461
- 11. 3282
- 12. 7416

25

- 1. 340
- 2. 728
- 3. 324
- 4. 1035
- 5. 760
- 6. 1232
- 7. 600
- 8. 2025
- 9. 576
- 10. 324
- 11. 714
- 12. 812

26

- 1. £23·70
- 2. 2·900 kg
- 3. 15 l
- 4. £15·96
- 5. £23·46

page 12

27

- 1. 81
- 2. 46
- 3. 63
- 4. 47
- 5. 84
- 6. 79
- 7. 351
- 8. 452
- 9. 474
- 10. 288
- 11. 456
- 12. 279

28

- 1. £1·84
- 2. £3·14
- 3. £2·16
- 4. £3·68
- 5. 2·82 m
- 6. 1·84 m
- 7. 1·16 m
- 8. 2·18 m

29

- 1. 552
- 2. 156
- 3. 147
- 4. 399
- 5. 453
- 6. 684
- 7. 642
- 8. 546

30

- 1. 225
- 2. 45
- 3. 4·8
- 4. 3·22
- 5. £4·44
- 6. £0·91
- 7. 1·97 m
- 8. 6·94 m

31

- 1. 846
- 2. 840
- 3. 2146
- 4. 728
- 5. 1024
- 6. 1470
- 7. 5628
- 8. 4818
- 9. 4312
- 10. 3864
- 11. 7820
- 12. 4154

page 13

32

- 1. 9048 mm<sup>2</sup>
- 2. 4624 mm<sup>2</sup>
- 3. 5490 mm<sup>2</sup>
- 4. 4606 mm<sup>2</sup>
- 5. 2916 mm<sup>2</sup>
- 6. 3900 mm<sup>2</sup>

33

- 1. 74 088 mm<sup>3</sup>
- 2. 32 256 mm<sup>3</sup>
- 3. 43 776 mm<sup>3</sup>
- 4. 23 142 mm<sup>3</sup>
- 5. 39 312 mm<sup>3</sup>
- 6. 21 952 mm<sup>3</sup>

34

- 1. 3350
- 2. 4484
- 3. 4900
- 4. 5175
- 5. 9222
- 6. 15 012
- 7. 10 752
- 8. 27 156
- 9. 9216
- 10. 16 625
- 11. 15 344
- 12. 22 572

page 14

35

- 26
- 36
- 65
- 62
- 25
- 39
- 17
- 32
- 34
- 19
- 56
- 58

37

- 23
- 23
- 15
- 25
- 23
- 22
- 35
- 13
- 20
- 48
- 12
- 13

36

- 16 cm
- 14 cm
- 28 cm
- 36 cm
- 18 cm
- 18 cm

38

324, 612, 396

page 15

39

- 1059
- 304
- 1267
- 3304
- 503
- 413
- 8
- 428

40

- 82
- 67
- 104
- 72
- 132
- 86

41

- 776
- 825
- 278
- 350
- 653
- 823
- 478
- 423

page 16

42

- $5 \times 11 \times 13$
- $3 \times 11 \times 17$
- $5 \times 7 \times 19$
- $7 \times 11 \times 13$
- $3 \times 17 \times 19$
- $5 \times 19 \times 23$
- $11 \times 13 \times 17$
- $3 \times 11 \times 23$
- $5 \times 11 \times 19$
- $2 \times 13 \times 19$

43

- 3840
- 660
- 700
- 15
- 50
- 384
- 154
- 3300
- 768
- 165
- 3500
- 14
- 8
- 30
- 616
- 12

44

- 49·4
- 49·4
- 4·94
- 4940
- 494
- 4·94
- 49400
- 0·494
- 494
- 4·94
- 4940
- 0·0494

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**45**

First throw, 88 score 413  
 Second throw, 59 score 354  
 Third throw, 103 score 251  
 Fourth throw, 43 score 208

**46**

- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| 1. $(9 \times 8) + (4 \times 7)$    | 2. $(14 + 6) \times (13 - 8)$     |
| 3. $13 + (7 \times 8) + 31$         | 4. $(67 - 17) \times (18 \div 2)$ |
| 5. $(92 + 17) - (45 \div 5)$        | 6. $(33 - 29) \times (53 - 28)$   |
| 7. $(25 \times 8) \div (16 \div 8)$ | 8. $(38 - 19) + (9 \times 9)$     |
| 9. $(8 \times 8) + (9 \times 4)$    | 10. $47 + (9 \times 7) - 10$      |

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**47**

£3.65

page 19

**48**

A, H (50) B, I (39) C, G (15) D, F (250) E, J (46)

**49**

- |                          |                         |                       |                           |
|--------------------------|-------------------------|-----------------------|---------------------------|
| 1. $(6 + 4) \times 7$    | 2. $7 \times (3 + 12)$  | 3. $(36 \div 3) + 9$  | 4. $(7 + 2) \times 5$     |
| 5. $(8 \div 2) \times 4$ | 6. $(12 \times 5) - 3$  | 7. $(3 + 9) \times 5$ | 8. $(24 \div 3) \times 4$ |
| 9. $(17 - 4) + 6$        | 10. $15 \times (3 + 3)$ | 11. $(50 - 14) + 6$   | 12. $(48 \div 6) + 6$     |

**50**

- |                          |                           |                           |
|--------------------------|---------------------------|---------------------------|
| 1. $(6 \times 3) + 5$    | 2. $5 + (9 \times 6)$     | 3. $60 \div (6 \times 2)$ |
| 4. $(12 \div 3) + 3$     | 5. $(40 \div 5) + 5$      | 6. $80 \div (8 \times 2)$ |
| 7. $5 + (9 \times 4)$    | 8. $42 \div (3 \times 2)$ | 9. $15 - (2 \times 6)$    |
| 10. $(4 \times 12) - 11$ | 11. $9 + (8 \times 8)$    | 12. $(24 \div 3) - 1$     |

page 20

**51**

- |  |                                     |
|--|-------------------------------------|
| 1. $10 \times (4 - 3) < 3 \times 4$    | 2. $(6 \times 4) - 1 > 5 \times 4$  |
| 3. $6 \times (12 + 1) > 60 + 17$       | 4. $(5 + 9) \times 3 > 6 \times 6$  |
| 5. $5 + (10 \times 6) < 9 \times 8$    | 6. $10 \times (9 - 1) < 9 \times 9$ |
| 7. $(100 - 3) \times 2 > 10 \times 10$ | 8. $27 - (3 + 4) < 7 \times 3$      |

**52**

1. 18    2. 20    3. 10    4. 16    5. 17    6. 19    7. 14    8. 13    9. 15    10. 12    11. 11

53

1.  $(6 \cdot 2 + 1 \cdot 8) \times 6$

3.  $5 \cdot 3 - (2 \cdot 7 + 1 \cdot 6)$

5.  $(5 \cdot 8 + 2 \cdot 2) \times 6 \cdot 5$

7.  $(2 \cdot 9 \times 3) + 4 \cdot 3$

9.  $(4 \cdot 9 \times 7) + 4 \cdot 7$
2.  $2 \cdot 5 + (1 \cdot 9 \times 5)$

4.  $6 \cdot 4 + (2 \cdot 3 \times 2)$

6.  $11 \cdot 2 - (6 \cdot 4 - 3 \cdot 2)$

8.  $(7 \cdot 2 + 2 \cdot 8) \times 2 \cdot 4$

10.  $3 \cdot 5 + (2 \cdot 2 \times 2 \cdot 5)$

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54

1.  $7 \times (5 - 3)$

4.  $(14 \times 2) - (7 + 4)$

7.  $(12 \div 3) + 9$

10.  $7 \times (4 + 4) \div 4$
2.  $27 - (3 + 9)$

5.  $24 \div (4 - 2) + 4$

8.  $(4 \times 3) + (1 \times 6)$

11.  $72 \div (6 - 2)$
3.  $3 + (4 \times 4)$

6.  $22 - (8 - 5)$

9.  $18 \div (2 + 7) + 10$

12.  $(3 \times 6) - (5 - 4)$

55

1.  $3 \times (4 - 2) = 3 + (9 \div 3)$

3.  $6 + (5 \times 6) = 9 \times (7 - 3)$

5.  $(5 + 4) \times (3 - 1) = (6 \times 2) + 6$

7.  $10 - (3 + 5) = 6 \div (6 - 3)$
2.  $17 - (2 + 3) = 15 - (12 \div 4)$

4.  $7 - (3 \times 2) = 10 - (6 + 3)$

6.  $12 \div (6 - 2) = (3 \times 4) - (3 \times 3)$

8.  $(4 \times 2) + (16 \div 4) = 3 \times (4 + 12) \div 4$

56

1. 7

3. 18

5. 9

7. 17
2. 8

4. 7

6. 8

8. 8

page 22

57

1.  $1\frac{3}{4}$  km < 1850 m

3.  $4\frac{1}{4}$  m = 4.25 m

5.  $2\frac{1}{2}$  litres > 2005 ml

7. 3.75 km >  $3\frac{1}{2}$  km

9. 75 mins =  $1\frac{1}{4}$  hrs

11.  $4\frac{1}{2}$  m > 445 cm
2.  $2\frac{1}{2}$  kg > 2250 g

4.  $3\frac{3}{4}$  hrs > 205 mins

6.  $2\frac{3}{4}$  m = 2750 mm

8. 1805 g >  $1\frac{3}{4}$  kg

10. 1650 ml <  $1\frac{3}{4}$  litres

12. 1350 ml >  $1\frac{1}{4}$  litres

58

1. 28 m<sup>2</sup>

3. 9 cm<sup>3</sup>
2. 15 m

4. 9 cm<sup>2</sup>

59

1.  $1\frac{1}{2}$

4.  $\frac{11}{4}$

7.  $1\frac{1}{2}$

10.  $\frac{11}{4}$
2.  $\frac{15}{10}$

5.  $2\frac{3}{5}$

8.  $\frac{9}{4}$

11.  $1\frac{4}{5}$
3.  $\frac{6}{2}$

6.  $\frac{17}{5}$

9.  $2\frac{1}{2}$

12.  $\frac{9}{2}$



page 23

60

- |           |            |             |
|-----------|------------|-------------|
| 1. 36 m   | 2. 9.8 kg  | 3. £2.25    |
| 4. 96 mm  | 5. 3.5 m   | 6. 3 litres |
| 7. 129 km | 8. 40 kg   | 9. £3.75    |
| 10. 1.1 m | 11. 8.1 kg | 12. £3.20   |

62

- |                    |                    |                    |
|--------------------|--------------------|--------------------|
| 1. $4\frac{1}{4}$  | 2. 6               | 3. $4\frac{1}{2}$  |
| 4. $3\frac{1}{8}$  | 5. $4\frac{1}{5}$  | 6. $6\frac{1}{10}$ |
| 7. $1\frac{7}{10}$ | 8. $2\frac{3}{8}$  | 9. $1\frac{1}{8}$  |
| 10. $4\frac{3}{8}$ | 11. $1\frac{2}{5}$ | 12. $2\frac{5}{8}$ |

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63

- |  |   |
|--|---|
| 1. $\frac{9}{10}, \frac{1}{2}, \frac{2}{5}, \frac{1}{5}$ | 2. $\frac{5}{6}, \frac{2}{3}, \frac{1}{3}, \frac{1}{6}$   |
| 3. $\frac{7}{8}, \frac{3}{4}, \frac{1}{2}, \frac{3}{8}$  | 4. $\frac{7}{10}, \frac{1}{2}, \frac{2}{5}, \frac{3}{10}$ |
| 5. $\frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{8}$  | 6. $\frac{3}{4}, \frac{5}{8}, \frac{1}{2}, \frac{1}{3}$   |

64

- |       |        |
|-------|--------|
| 1. 36 | 2. 32  |
| 3. 15 | 4. 50  |
| 5. 32 | 6. 120 |
| 7. 28 | 8. 27  |
| 9. 30 | 10. 20 |

65

- |                           |                           |
|---------------------------|---------------------------|
| 1. $\frac{1}{2}$ of 3 kg  | 2. $\frac{2}{5}$ of 95 cm |
| 3. $\frac{3}{4}$ of £3.56 | 4. $\frac{1}{2}$ of 296   |
| 5. $\frac{1}{5}$ of 9 m   | 6. $\frac{1}{3}$ of 4.5 l |
| 7. $\frac{7}{8}$ of £4.08 | 8. $\frac{7}{10}$ of 4 kg |

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66

- |                    |                     |                    |                     |
|--------------------|---------------------|--------------------|---------------------|
| 1. $\frac{4}{100}$ | 2. $\frac{7}{10}$   | 3. 2               | 4. $\frac{5}{1000}$ |
| 5. $\frac{1}{10}$  | 6. $\frac{4}{1000}$ | 7. $\frac{7}{100}$ | 8. $\frac{6}{100}$  |
| 9. 60 cm           | 10. 5 cm            | 11. 700 g          | 12. 40 ml           |
| 13. 40p            | 14. 7 mm            | 15. 400 m          | 16. 20 g            |

68

- 3.099, 3.899, 3.909, 4
- 17.05, 17.099, 17.19, 17.4
- 0.666, 0.676, 0.767, 0.777
- 4.99, 4.999, 5.01, 5.1
- 0.002, 0.122, 0.2, 0.212
- 12, 12.04, 12.098, 12.1
- 0.699, 0.719, 0.72, 0.721
- 15.498, 15.499, 15.5, 15.51

61

- $\frac{7}{10} = \frac{70}{100} = 0.7 = 70\%$
- $\frac{9}{10} = \frac{90}{100} = 0.9 = 90\%$
- $\frac{3}{10} = \frac{30}{100} = 0.3 = 30\%$
- $\frac{2}{5} = \frac{4}{10} = 0.4 = 40\%$
- $\frac{1}{4} = \frac{25}{100} = 0.25 = 25\%$
- $\frac{4}{5} = \frac{8}{10} = 0.8 = 80\%$
- $\frac{3}{4} = \frac{75}{100} = 0.75 = 75\%$
- $\frac{1}{5} = \frac{2}{10} = 0.2 = 20\%$
- $\frac{1}{2} = \frac{5}{10} = 0.5 = 50\%$
- $\frac{3}{5} = \frac{6}{10} = 0.6 = 60\%$

67

- |         |         |
|---------|---------|
| 1. 10   | 2. 10   |
| 3. 1000 | 4. 10   |
| 5. 100  | 6. 10   |
| 7. 100  | 8. 10   |
| 9. 100  | 10. 10  |
| 11. 10  | 12. 100 |

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69

- 1. 0.6
- 2. 0.64
- 3. 9
- 4. 2.753
- 5. 6
- 6. 7.681
- 7. 8.57
- 8. 24

70

- 1. 4.583
- 2. 5.678
- 3. 6.128
- 4. 3.776
- 5. 6.689
- 6. 4.591

71

- 1. 3.55
- 2. 0.17
- 3. 4.79
- 4. 0.45
- 5. 2.45
- 6. 6

page 27

72

- 1. 5.476
- 2. 5.297
- 3. 5.066
- 5.467
- 5.279
- 4. 5.156
- 5. 5.097
- 6. 5.355
- 5.165
- 5.079

73

- 1. 3.97
- 2. 1.976
- 3. 1.4
- 4. 14.68
- 5. 2.34
- 6. 20.65
- 7. 14.72
- 8. 4.074
- 9. 3.472
- 10. 1.024

74

- 1. 15.75
- 2. 21.25
- 3. 13.6
- 4. 19.875
- 5. 19.6
- 6. 29.25
- 7. 24.3
- 8. 24.8
- 9. 29.875
- 10. 34.25
- 11. 17.8
- 12. 29.2

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75

- 1.  $2.943 > 2.493 > 2.349$
- 2.  $0.011 < 0.101 < 1.01$
- 3.  $7.402 < 7.489 < 7.492$
- 4.  $6.199 > 6.1 > 6.098$
- 5.  $4.237 > 4.219 > 4$
- 6.  $2.899 < 2.9 < 3$

76

- 1. 4.998
- 2. 5.293
- 3. 5.175
- 4. 5.283
- 5. 5.096
- 6. 5.194

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77

- 1. 2.78
- 2. 3.047
- 3. 5.75
- 4. 6.278
- 5. 0.2
- 6. 1.009
- 7. 6.294
- 8. 4.63

**78**

$$\begin{array}{r} 1. \quad 2.34 \\ + 1.692 \\ \hline 4.032 \end{array}$$

$$\begin{array}{r} 2. \quad 7.04 \\ - 2.95 \\ \hline 4.09 \end{array}$$

$$\begin{array}{r} 3. \quad 2.946 \\ + 0.37 \\ \hline 3.316 \end{array}$$

$$\begin{array}{r} 4. \quad 7.241 \\ \times \quad 8 \\ \hline 57.928 \end{array}$$

$$\begin{array}{r} 5. \quad 3.59 \\ 7 \overline{) 25.13} \end{array}$$

$$\begin{array}{r} 6. \quad 4.702 \\ - 1.693 \\ \hline 3.009 \end{array}$$

$$\begin{array}{r} 7. \quad 3.72 \\ \times \quad 5 \\ \hline 18.60 \end{array}$$

$$\begin{array}{r} 8. \quad 4.117 \\ 3 \overline{) 12.351} \end{array}$$

$$\begin{array}{r} 9. \quad 1.76 \\ - 0.943 \\ \hline 0.817 \end{array}$$

$$\begin{array}{r} 10. \quad 2.83 \\ 7 \overline{) 19.81} \end{array}$$

$$\begin{array}{r} 11. \quad 7.046 \\ + 1.969 \\ \hline 9.015 \end{array}$$

$$\begin{array}{r} 12. \quad 3.048 \\ \times \quad 3 \\ \hline 9.144 \end{array}$$

**79**

- A, 2.3    B, 2.55    C, 2.7    D, 1.85    E, 2.05    F, 2.3  
G, 3.9    H, 4.05    I, 4.15    J, 2.75    K, 2.95    L, 3.1  
M, 6.1    N, 6.35    O, 6.55    P, 5.95    Q, 6.15    R, 6.3

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**80**

1. 5.472    2. 8.69    3. 2.844    4. 21.198  
5. 14.544    6. 17.422  
7. 6.673    8. 81.42  
9. 14.612    10. 12.272

**82**

1. 29.61    2. 2.492    3. 75.6    4. 13.46  
5. 64.8    6. 14.349    7. 4.452    8. 11.7  
9. 21.68    10. 5.792    11. 10.323    12. 16.458

**81**

1. 2.67    2. 43.96    3. 3.758    4. 1.816  
5. 1.32    6. 1.505  
7. 1.853    8. 1.22  
9. 4.55    10. 1.376

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83

1. 3.78
2. 0.694
3. 1.79
4. 2.631
5. 5.42
6. 0.763
7. 1.694
8. 0.498
9. 3.67
10. 1.471
11. 0.674
12. 1.632

84

1.  $-3 \div 11$
2.  $\times 4 + 3$
3.  $\times 3 - 4$

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86

1. 34
2. 15
3. 100
4. 24
5. 70
6. 40
7. 48
8. 48
9. 100
10. 32

87

1. 5 and 20
2. 80 and 40
3. 13 and 7
4. 24, 12 and 6
5. 64

88

1.  $7\frac{1}{2}$
2.  $5\frac{1}{4}$
3.  $5\frac{1}{2}$
4.  $3\frac{3}{4}$
5.  $1\frac{1}{2}$
6.  $2\frac{1}{4}$
7. 6.4
8. 4.1
9. 2.75
10. 1.3
11. 4.75
12. 8.95

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89

1. 10
2. 4
3. 4
4. 6
5. 3
6. 2
7. 7
8. 9
9. 7
10. 6
11. 6
12. 7

90

1. 203

139

+258

---

600

---
2. 179
- 216
- +113
- 
- 508
- 
3. 49
- 339
- +127
- 
- 515
- 
4. 198
- 97
- +329
- 
- 624
- 
5. 703
- 168
- 
- 535
- 
6. 136
- 47
- 
- 89
- 
7. 555
- 168
- 
- 387
- 
8. 481
- 216
- 
- 265
-

**90** continued

9. 
$$\begin{array}{r} 37 \\ \times 5 \\ \hline 185 \end{array}$$

10. 
$$\begin{array}{r} 103 \\ \times 4 \\ \hline 412 \end{array}$$

11. 
$$\begin{array}{r} 194 \\ \times 5 \\ \hline 970 \end{array}$$

12. 
$$\begin{array}{r} 86 \\ \times 9 \\ \hline 774 \end{array}$$

13. 
$$\begin{array}{r} 59 \\ 7 \overline{) 413} \end{array}$$

14. 
$$\begin{array}{r} 96 \\ 8 \overline{) 768} \end{array}$$

15. 
$$\begin{array}{r} 104 \\ 6 \overline{) 624} \end{array}$$

16. 
$$\begin{array}{r} 293 \\ 3 \overline{) 879} \end{array}$$

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**91**

Possible solutions include:

1.  $24 \times 3 \rightarrow 72 \div 2 \rightarrow 36 + 4 \rightarrow 40 \div 10 \rightarrow 4 - 1 \rightarrow 3 \times 6 \rightarrow 18 + 6 \rightarrow 24$   
2.  $10 \times 4 \rightarrow 40 + 50 \rightarrow 90 \div 2 \rightarrow 45 \div 5 \rightarrow 9 \times 9 \rightarrow 81 \div 3 \rightarrow 27 - 17 \rightarrow 10$

**92**

1.  $\times 2 + 3$     2.  $\times 3 - 10$     3.  $\div 2 + 4$     4.  $\div 5 + 2$

**93**

1. 37                      2.  $8\frac{1}{2}$                       3.  $4\frac{1}{2}$   
4. 3                      5. 10                      6. 32  
7. 3                      8. 2, 3                      9. 0, 4; 2, 3 or 4, 2

**page 35**

**94**

1.  $\times 4 - 19$                       2.  $\div 5 \times 16$   
3.  $\times 3 - 27$                       4.  $\div 13 \times 17$   
5.  $+ 36 \times 4$                       6.  $- 75 \times 8$   
7.  $\div 5 \times 17$                       8.  $\div 6 + 52$   
9.  $\div 13 \times 12$                       10.  $\times 14 - 27$

**96**

1.  $6 \div 5$                       2.  $\times 2, 0.5$   
3.  $\times 6, - 4.5$                       4.  $+ 3.4, \div 5$   
5.  $\div 4 \times 3$                       6.  $3, + 5.5$   
7.  $\div 6, \div 5$                       8.  $3.2, + 1$   
9.  $5.2, + 0.8$                       10.  $\div 2, \times 8$

**95**

1. 5, 15, 45, 135, 405, 1215  
2. 24, 12, 6, 3,  $1\frac{1}{2}$ ,  $\frac{3}{4}$   
3.  $1.2, 2.4, 4.8, 9.6, 19.2, 38.4$   
4. 7,  $5.6, 4.2, 2.8, 1.4, 0$   
5.  $1.05, 1.1, 1.15, 1.2, 1.25, 1.3$   
6. 28, 14, 7,  $3\frac{1}{2}$ ,  $1\frac{3}{4}$ ,  $\frac{7}{8}$

page 36

97

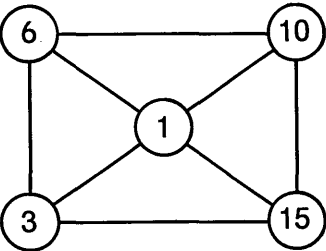
1.  $11 \times 7$ 
 2.  $13 \times 11$ 
 3.  $19 \times 5$ 
 4.  $29 \times 7$ 
 5.  $41 \times 3$ 
 6.  $23 \times 11$
7.  $31 \times 17$ 
 8.  $41 \times 11$ 
 9.  $47 \times 11$ 
 10.  $13 \times 17$ 
 11.  $31 \times 19$ 
 12.  $29 \times 19$

98

1. 9
 2. 10
 3. 8
 4. 4
 5. 5
6. 75
 7. 1
 8. 59
 9. 95
 10. 109

99

Possible solutions include:



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100

1. 107, 116; 108, 124; 136, 161; 84, 120; 74, 138; 104, 185

101

Possible solutions include:

1.  $17 - 4 + 5 + 1$ 
 2.  $20 \times 2 + 12 + 1$
3.  $15 \div 3 + 8 + 6$ 
 4.  $7 \times 7 - 5 - 1$
5.  $6 \times 3 + 5 \times 1$ 
 6.  $9 + 7 - 2 - 1$
7.  $13 + 4 + 13 + 1$ 
 8.  $18 + 9 - 5 + 15$

102

1.  $1 + 2 - 3 = 0$ 
 2.  $6 + 7 - 8 = 5$
3.  $6 \times 7 + 8 = 50$ 
 4.  $6 \times 7 - 8 = 34$
5.  $1 \div 2 \times 3 = 1.5$ 
 6.  $2 \times 3 \div 4 = 1.5$
7.  $8 \times 9 \div 10 = 7.2$ 
 8.  $4 \div 5 \times 6 = 4.8$
9.  $3 \div 4 \times 5 = 3.75$ 
 10.  $6 \times 7 \div 8 = 5.25$

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103

WHEN IT LOSES ITS BARK

104

1. BATH
 2. GATE
 3. CHAIR
4. BELL
 5. HALL
 6. LIGHT
7. TABLE
 8. GRATE
 9. CABLE

page 39

105

- £112
- Balloon 1, 150 minutes
 Balloon 2, 175 minutes
 Balloon 3, 183 minutes
- Balloon 4, 142 minutes
 Balloon 5, 192 minutes
 Balloon 6, 133 minutes

106

page 40

107

- 1. B                      2. A
- 3. B                      4. A
- 5. A                      6. A
- 7. A                      8. B

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108

- 1. B                      2. A
- 3. B                      4. A

109

- 1. B                      2. B

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110

- 1. Umar  $\frac{15}{20}$ , Mira  $\frac{13}{20}$ , Susan  $\frac{7}{20}$ , William  $\frac{17}{20}$ , Claire  $\frac{12}{20}$ , Jayne  $\frac{16}{20}$ , Shanti  $\frac{10}{20}$ , Chantell  $\frac{14}{20}$
- 2. Umar 75%, Mira 65%, Susan 35%, William 85%, Claire 60%, Jayne 80%, Shanti 50%, Chantell 70%
- 3. Average score is  $\frac{13}{20}$
- 4. Mira

111

- 1. 9 days    2. 19 days    3. 20 May    4. 27 May    5. Sunday    6. Saturday

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112

- 1. 3rd year    2. 4th year    3. 6th year    4. 2nd year

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113

- 1. £6                      2. £9                      3. £6
- 4. £27                      5. £135                      6. £12
- 7. £15·75                      8. £28                      9. £112
- 10. £39                      11. £72                      12. £15·75

114

- 1. 12                      2. 25%                      3. £16·20                      3. £280

115

- 1. £4·70    2. £7·92    3. £9·28    4. £12·40    5. £8·46    6. £20·56

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116

Bicycle £95·40, TV £266·40, Video £269·10, Encyclopaedias £115·20, Go-cart £100·80, Computer £225, Billiard table £94·50

**117**

A, £24    B, £31    F, £16    G, £17,    I, £26

**118**

Plaxo 690 g, Washo 1·150 kg, muesli 460 g, potatoes 9·200 kg

**page 46**

**119**

1. A    2. B    3. B    4. A    5. B    6. B    7. A    8. A

**120**

1.  $49\cdot9 \times 2$     2.  $52 + 46\cdot8$     3.  $401 \div 4$   
4.  $201 - 100\cdot9$     5.  $\frac{1}{2}$  of  $199\cdot9$     6.  $\frac{1}{5}$  of 501

**page 47**

**121**

1. B    2. A    3. B

**122**

1.  $16\cdot7 \times 6 = 100\cdot2$     2.  $24\cdot9 \times 4 = 99\cdot6$     3.  $19\cdot6 \times 5 = 98$     4.  $15\cdot8 \times 6 = 94\cdot8$   
5.  $49\cdot2 \times 2 = 98\cdot4$     6.  $31\cdot6 \times 3 = 94\cdot8$     7.  $18\cdot3 \times 5 = 91\cdot5$   
8.  $11\cdot4 \times 9 = 102\cdot6$     9.  $12\cdot7 \times 8 = 101\cdot6$     10.  $14\cdot5 \times 7 = 101\cdot5$

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**123**

1. 30    2. 50    3. 20    4. 30  
5. 30    6. 40    7. 20    8. 20  
9. 40    10. 30    11. 20    12. 50  
13. 50    14. 20    15. 40    16. 50

**124**

1. b    2. a    3. c  
4. c    5. a    6. b

**125**

7·1, 35; 5·1, 26; 6·5, 32; 1·95, 10; 4·85, 24; 2·9, 15; 3·3, 17