# Answers

## Chapter 1 Revising and improving

### Unit 1.1

**1** **(a)** 72 **(b)** 99 **(c)** 68
**(d)** 35 **(e)** 50 **(f)** 73
**(g)** 27 **(h)** 40 **(i)** 63
**(j)** 71 **(k)** 16 **(l)** 18
**(m)**54 **(n)** 40 **(o)** 7
**(p)** 100 **(q)** 37 **(r)** 91

**2** **(a)** 94 **(b)** 93
**(c)** 80 **(d)** 83
**(e)** 104 **(f)** 92
**(g)** 89 **(h)** 77
**(i)** 91 **(j)** 83

**3** **(a)** 27 **(b)** 9
**(c)** 24 **(d)** 5
**(e)** 6 **(f)** 27
**(g)** 25 **(h)** 34
**(i)** 15 **(j)** 34

**4** **(a)** 70 **(b)** 61
**(c)** 19 **(d)** 74
**(e)** 42 **(f)** 97
**(g)** 42 **(h)** 27
**(i)** 61 **(j)** 68

**5** **(a)** 15 **(b)** 27
**(c)** 75 **(d)** 35
**(e)** 51 **(f)** 68

**6** **(a)** 18 + 25 = £43
**(b)** 50 − 46 = £4
**(c)** 46 − 18 = £28

**7** **(a)** 1 + 2 − 3 + 5 − 4 = 1
**(b)** 1 + 2 + 3 − 4 + 5 − 6 = 1

### Unit 1.2

**1** **(a)** 43 **(d)** 55
**(b)** 59 **(e)** 100
**(c)** 82 **(f)** 51
**(g)** 47 **(j)** 55
**(h)** 11 **(k)** 0
**(i)** 85 **(l)** 46

**2** **(a)** 84 **(b)** 57 **(c)** 87

**3** **(a)** 27 + 18 = 45 (fruits) **(b)** 45 − 27 = 18 (pears)
**(c)** 25 + 6 = 31 (girls) **(d)** 38 − 29 = 9

**4** **(a)** 56 − 19 = 37 (eggs)
**(b)** 27 + 14 = 41 (pages)

**5** **(a)** 76 − 47 = £29
**(b)** 2 (toys) Answers may vary, for example, 47 + 24 = £71, yes 100 − 71 = £29

### Unit 1.3

**1** **(a)** 22 **(d)** 67
**(b)** 94 **(e)** 90
**(c)** 81 **(f)** 62
**(g)** 66 **(j)** 44
**(h)** 18 **(k)** 63
**(i)** 46 **(l)** 18

**2** **(a)** 81 **(e)** 64 **(i)** 64
**(b)** 24 **(f)** 19 **(j)** 74
**(c)** 14 **(g)** 39 **(k)** 84
**(d)** 17 **(h)** 59 **(l)** 41

**3** **(a)** 15 + 10 = 25 (butterflies) **(b)** 38 − 12 = 26 (chicks)
**(c)** 45 − 16 = 29 (pears) **(d)** 46 − 17 = 29 (crates)

**4** **(a)** 32 + 68 = £100 A scooter and a skateboard
**(b)** 24 + 68 = £92
**(c)** 54 − 48 = £6

**5** M = 7, A = 9, T = 1

### Unit 1.4

**1** **(a)** 2 **(b)** 10 **(c)** 6
**(d)** 9 **(e)** 5 **(f)** 4

**2** **(a)** 65 **(b)** 82
**(c)** 39 **(d)** 47
**(e)** 65 **(f)** 39
**(g)** 83 + 2 − 2 40 + 43 = 83
**(h)** 24 + 1 +1 64 − 40 = 24

**3** **(a)** 12 52 **(b)** 59 29
**(c)** 16 50 66 **(d)** 96 50 46
**(e)** 46 30 **(f)** 29 74 44 (answer may vary)
**(g)** 23 + 70 = 22 + 71 = 21 + 72 = 20 + 73
**(h)** 70 − 32 = 68 − 30 = 78 − 40 = 80 − 42 (answers may vary)

**4** lines drawn from 55 + 28 to 53 + 30, 13 + 48 to 10 + 51, 62 − 15 to 60 − 13 and 74 − 36 to 78 − 40

**5** 74

### Unit 1.5

**1** **(a)** 29 **(b)** 38 **(c)** 64
**(d)** 29 **(e)** 38 **(f)** 64
**(g)** 34 **(h)** 28 **(i)** 68
**(j)** 0 **(k)** 100 **(l)** 39
**(m)**30 **(n)** 92 **(o)** 34

**2** **(a)** 36 + 18 = 54 18 + 36 = 54 54 − 18 = 36 54 − 36 = 18
**(b)** 59 59 59
**(c)** 85 85 85
**(d)** 29 29 29 29 29

**3** **(a)** 72 − 34 = 38 (fish)
**(b)** 15 + 36 = 51 (children)
**(c)** 21 − 12 = 9 (birds)

**4** **(a)** > **(b)** < **(c)** <

### Unit 1.6

**1** **(a)** Table correctly completed
**(b)** Multiplication facts with repeated numbers circled, for example, 2 × 2 = 4, 5 × 5 = 25
**(c)** Multiplication facts correctly coloured
**(d)** The products are all multiples of 2. (answer may vary)
**(e)** Answer may vary

**2** 8 × 9 to '8 times 9 is 72' to 72 ÷ 9
24 ÷ 8 to '3 times 8 is 24' to 3 × 8
60 ÷ 10 to '6 times 10 is 60' to 60 ÷ 6
6 × 10 to '6 times 10 is 60' to 60 ÷ 6

**3** Answers may vary

**4** There are several ways, for example:
**(a)** 2 × 5 = 1 × 10
**(b)** 4 × 2 = 2 × 4 = 1 × 8
**(c)** 6 × 3 = 3 × 6 = 2 × 9, and so on.

### Unit 1.7

**1** **(a)** There are 3 times as many ◇ as ☆.
9 ÷ 3 = 3
**(b)** 5 2 10 10 ÷ 2 = 5
**(c)** 2 × 6 + 5 = 17 5 × 3 + 2 = 17
3 × 6 − 1 = 17 6 × 3 − 1 = 17

**2** **(a)** 24 ÷ 6 = 4 (days)
**(b)** 24 ÷ 3 = 8 (days)
**(c)** 24 ÷ 7 = 3 (days) r 3

**3** **(a)** 2 4 × 2 = 8
**(b)** 40 8 × 5 = 40

**4** 35 children

### Chapter 1 test

**1** **(a)** 65 **(b)** 9 **(c)** 10
**(d)** 2 **(e)** 25 **(f)** 97
**(g)** 48 **(h)** 4 **(i)** 21
**(j)** 89 **(k)** 40 **(l)** 7

**2** **(a)** 62 **(b)** 6
**(c)** 55 **(d)** 76
**(e)** 39 **(f)** 72
**(g)** 33 **(h)** 31
**(i)** 68 **(j)** 63

**3** **(a)** 17 **(b)** 22
**(c)** 79 **(d)** 31
**(e)** 40 **(f)** 0
**(g)** 10 **(h)** 96
**(i)** 4 **(j)** 14
**(k)** 2 **(l)** 18

**4** **(a)** 65 − 28 = 37 37
**(b)** 30 − 16 = 14 14 (pears)
**(c)** 24 + 38 = 62 62 (sweets)
**(d)** 45 + 16 = 61 61 (storybooks)
**(e)** 72 − 37 = 35 35 (lilies)
**(f)** 40 ÷ 4 = 10 10
**(g)** 72 ÷ 9 = 8 8 (metres)

**5** **(a)**
$$\begin{array}{r} 31 \\ +\,46 \\ \hline 77 \end{array}$$
**(b)**
$$\begin{array}{r} 85 \\ -\,45 \\ \hline 40 \end{array}$$
**(c)**
$$\begin{array}{r} 24 \\ +\,39 \\ \hline 63 \end{array}$$
**(d)**
$$\begin{array}{r} 66 \\ -\,17 \\ \hline 49 \end{array}$$

# Chapter 2 Multiplication and division (II)

## Unit 2.1

**1** fourteen
twenty-eight
fifty-six
seven
seven
Three
Seven nine (or vice versa)
seven
seventy-seven
Twelve

**2** The following linked:
'Three times seven is twenty-one' to 7 × 3 to 21 ÷ 7
'Seven times eight is fifty-six' to 7 × 8 to 56 ÷ 7
'Six times seven is forty-two' to 7 × 6 to 42 ÷ 6
'Five times seven is thirty-five' to 5 × 7 to 35 ÷ 5

**3** **(a)** 7 **(b)** 28
**(c)** 5 **(d)** 7
**(e)** 0 **(f)** 63
**(g)** 2 **(h)** 8
**(i)** 77 **(j)** 84
**(k)** 12 **(l)** 10
**(m)**7 **(n)** 21
**(o)** 11 **(p)** 70

**4** **(a)** 14 ÷ 7 = 2
**(b)** 3 × 7 = 21
**(c)** 7 × 5 = 35 (pupils)
**(d)** 35 + 6 = 41 (pupils)

**5** Answers may vary, for example, 6 × 7 = 42 or 14 ÷ 2 = 28 ÷ 4

## Unit 2.2

**1** **(a)** fifteen 3 × 5 = 15 5 × 3 = 15 15 ÷ 3 = 5 15 ÷ 5 = 3
**(b)** Three eleven 3 × 11 = 33 11 × 3 = 33 33 ÷ 3 = 11 33 ÷ 11 = 3
**(c)** six 3 × 6 = 18 6 ×3 = 18 18 ÷ 3 = 6 18 ÷ 6 = 3

**2** **(a)** 18 **(b)** 24 **(c)** 27
**(d)** 33 **(e)** 21 **(f)** 36
**(g)** 10 **(h)** 15 **(i)** 12
**(j)** 6 **(k)** 1 **(l)** 3
**(m)**4 **(n)** 5 **(o)** 33

**3** 3 21 3 3 36 10 0

**4** **(a)** 3 × 3 = 9
**(b)** 15 ÷ 3 = 5
**(c)** 3 × 7 = 21

**5** **(a)** 3 × 8 = £24 50 − 24 = £26
**(b)** 6 × 4 = 24 (ducks) 24 + 6 = 30 (ducks)

**6** 6

**7** **(a)** Younger baby monkey: 24 ÷ (2 + 1) = 8 (peaches)
**(b)** Older baby monkey: 8 × 2 = 16 (peaches)

## Unit 2.3

**1** **(a)** 6 × 3 = 18 3 × 6 = 18 Three times six is eighteen.
**(b)** 6 × 4 = 24 4 × 6 = 24 Four times six is twenty-four.
**(c)** 6 × 5 = 30 5 × 6 = 30 Five times six is thirty.
**(d)** 6 × 8 = 48 8 × 6 = 48 Six times eight is forty-eight.

**2** **(a)** = **(b)** >
**(c)** = **(d)** <

**3** **(a)** 12 = 2 × 6 = 3 × 4 = 6 × 2
**(b)** 36 = 4 × 9 = 6 × 6 = 9 × 4
**(c)** 18 = 2 × 9 = 3 × 6 = 6 × 3 (answers may vary)

**4** **(a)** 30 **(b)** 42
**(c)** 54 **(d)** 4
**(e)** 21 **(f)** 72
**(g)** 0 **(h)** 9
**(i)** 33 **(j)** 66
**(k)** 72 **(l)** 6
**(m)**60 **(n)** 12
**(o)** 36 **(p)** 66

**5** **(a)** 6 × 8 = 48 (hours) 5 × 8 = 40 (hours),
**(b)** 48 − 40 = 8 (hours)

**6** 8

**7** 25

## Unit 2.4

**1** **(a)** nine 9 9
**(b)** twenty-seven 3 × 9 = 27 9 × 3 = 27
**(c)** thirty-six 4 × 9 = 36 9 × 4 = 36
**(d)** ninety-nine 11 × 9 = 99 9 × 11 = 99
**(e)** Six times nine 54 ÷ 9 = 6 54 ÷ 6 = 9
**(f)** Two times nine 18 ÷ 9 = 2 18 ÷ 2 = 9

**2** **(a)** 9 **(b)** 2 **(c)** 2
**(d)** 4 **(e)** 10 **(f)** 5
**(g)** 2 **(h)** 6 **(i)** 11

**3** 3 × 7 = 21 5 × 9 = 45 9 × 10 = 90
7 × 3 = 21 9 × 5 = 45 10 × 9 = 90
21 ÷ 3 = 7 45 ÷ 5 = 9 90 ÷ 9 = 10
21 ÷ 7 = 3 45 ÷ 9 = 5 90 ÷ 10 = 9

**4** **(a)** 54 ÷ 6 = 9 (carrots)
**(b)** 36 ÷ 4 = 9 (chocolate bars)
**(c)** 9 × 3 = 27 (bananas)
**(d)** 18 ÷ 9 = 2 (boxes)

**5** **(a)** 36 20 **(b)** 63 127

**6** **(a)** 18 ÷ (3 − 1) = 9 (seconds)
**(b)** 9 × (8 − 1) = 63 (seconds)

## Unit 2.5

**1** **(a)** 6 × 3 = 18 3 × 6 = 18
**(b)** 3 × 6 = 18 6 × 3 = 18
**(c)** 2 × 9 = 18 9 × 2 = 18

**2** **(a)** 6, 3, 2
**(b)** 9, 6, 12
**(c)** 6, 9, 18

**3** **(a)** 7 × 6 = 42
**(b)** 36 ÷ 4 = 9
**(c)** 24 ÷ 3 = 8 24 ÷ 6 = 4

**4** **(a)** 9 × 2 = 18 (tulips)
**(b)** 18 + 9 = 27 (flowers)
27 ÷ 9 = 3 (bouquets)
**(c)** 6 × 6 ÷ 3 = 12 (balloons)

**5** 6

**6** 36

## Unit 2.6

**1** Table correctly completed

**2** **(a)** twenty-eight 4 × 7 = 28 7 × 4 = 28 28 ÷ 4 = 7 28 ÷ 7 = 4
**(b)** forty 5 × 8 = 40 8 × 5 = 40 40 ÷ 5 = 8 40 ÷ 8 = 5
**(c)** sixty-six 6 × 11 = 66 11 × 6 = 66 66 ÷ 6 = 11 66 ÷ 11 = 6
**(d)** four 3 × 4 = 12 4 × 3 = 12 12 ÷ 3 = 4 12 ÷ 4 = 3
**(e)** six 4 × 6 = 24 6 × 4 = 24 24 ÷ 4 = 6 24 ÷ 6 = 4
**(f)** Four 4 × 9 = 36 9 × 4 = 36 36 ÷ 4 = 9 36 ÷ 9 = 4

**3** **(a)** 10 ÷ 2 = 5 10, 2, 5, 10 ÷ 2 = 5
**(b)** 3 × 5 = 15 5, 3, 15, 15 ÷ 3 = 5
**(c)** 8 × 3 = 24 24, 8, 3, 24 ÷ 3 = 8
**(d)** 3 9 × 3 = 27 9, 3, 27, 27 ÷ 3 = 9

**4** **(a)** 2 × 2 − 2 × 2 = 0 **(b)** 2 × 2 ÷ 2 ÷ 2 = 1
**(c)** 2 ÷ 2 + 2 ÷ 2 = 2 **(d)** 2 × 2 − 2 ÷ 2 = 3 (answers may vary)

## Unit 2.7

**1** Answers may vary

**2** **(a)** 16 pupils took part in a relay race 16 ÷ 4 = 4 (pupils)
**(b)** 25 pupils took part in the rope skipping 25 ÷ 5 = 5 (classes)
**(c)** 42 played football. How many pupils played table tennis? 42 ÷ 7 = 6 (pupils)

**3** **(a)** Holly was the first runner.
**(b)** 100 + 20 = 120 (metres)

**4** 16 ÷ 2 ÷ 2 = 4 (apples)

## Unit 2.8

**1** Answers may vary

**2** **(a)** 10 × 4 = 40 (origami cranes)
**(b)** 9 × 5 = 45 (metres) 45 + 9 = 54 (metres)
**(c)** 10 × 3 = £30
**(d)** 6 × 5 = 30 (birds) 30 − 18 = 12 (birds)

**3** 60 ÷ (3 − 1) = 30 (seconds) 30 × (6 − 1) = 150 (seconds)

**4** 16 ÷ 2 ÷ 2 = 4 (metres)

## Unit 2.9

**1** **(a)** 18, 3 × 5 + 3 = 18, 3 × 4 + 6 = 18 (answers may vary)
**(b)** 34, 4 × 8 + 2 = 34, 8 × 4 + 2 = 34 (answers may vary)

**2** **(a)** 7 **(b)** 4
**(c)** 5 **(d)** 3
**(e)** 5 **(f)** 5
**(g)** 4, 2 **(h)** 7, 7
**(i)** 10, 3 **(j)** 5, 1
**(k)** 9, 6 **(l)** 4, 1
**(m)**6, 5 **(n)** 9, 4
**(o)** 11, 3 **(p)** 9, 7

**3** **(a)** 19 = 2 x 9 + 1 **(b)** 32 = 3 × 10 + 2
**(c)** 19 = 3 × 6 + 1 **(d)** 32 = 4 x 8 + 0
**(e)** 19 = 4 × 4 + 3 **(f)** 32 = 5 × 6 + 2
**(g)** 19 = 5 × 3 + 4 **(h)** 32 = 6 × 5 + 2
**(i)** 19 = 6 × 3 + 1 **(j)** 32 = 7 × 4 + 4
**(k)** 19 = 7 × 2 + 5 **(l)** 32 = 8 × 4 + 0
**(m)**19 = 8 × 2 + 3 **(n)** 32 = 9 × 3 + 5
**(o)** 19 = 9 × 2 + 1 **(p)** 32 = 10 × 3 + 2
**(q)** 19 = 10 × 1 + 9 **(r)** 32 = 11 × 2 + 10
**(s)** 19 = 11 x 1 + 8 **(t)** 32 = 12 × 2 + 8 (answers may vary)

**4** Answers may vary

**5** 36

## Unit 2.10

**1** **(a)** 7, 1, 7 × 3 + 1 = 22
**(b)** 4, 2, 4 × 5 + 2 = 22

**2** 6, 3, 27 ÷ 4 = 6 r 3

**3** **(a)** 2 r 1 **(b)** 18, 3 r 3
**(c)** 11, 3, 3 r 2

**4** **(a)** 5 r 2 **(b)** 3 r 2
**(c)** 6 r 2 **(d)** 7 r 3
**(e)** 7 r 1 **(f)** 5 r 7
**(g)** 5 r 6 **(h)** 6 r 7
**(i)** 9 r 2 **(j)** 6 r 4

**5** **(a)** 9 ÷ 4 = 2 (bottles) r 1 (bottle)
**(b)** 7 × 6 + 5 = 47 (peaches)
**(c)** 50 ÷ 6 = 8 r 2

**6** 43

## Unit 2.11

**1** **(a)** 20
**(b)** 3, 6
**(c)** 2
**(d)** 20 ÷ 3 = 6 r 2

**2** **(a)** 7
**(b)** 3
**(c)** 45 ÷ 6 = 7 r 3

**3** **(a)** 5 **(b)** 5 **(c)** 8
**(d)** 4 **(e)** 8 **(f)** 9
**(g)** 4 **(h)** 10 **(i)** 8

**4** **(a)** ✓ **(b)** ✗
**(c)** ✓ **(d)** ✓
**(e)** ✗ **(f)** ✓

**5** **(a)** 31 ÷ 7 = 4 (weeks) r 3 (days)
**(b)** 50 ÷ 6 = 8 (children) r 2 (sweets)
**(c)** 49 ÷ 5 = 9 (coats) r 4 (buttons)

**6** **(a)** 26 ÷ 4 = 6 (boats) r 2 (children) 6 + 1 = 7 (boats)
**(b)** 26 ÷ 6 = 4 (boats) r 2 (children) 4 + 1 = 5 (boats)
**(c)** Answers may vary

## Unit 2.12

**1** **(a)** 4 r 1 **(b)** 9 r 2 **(c)** 5 r 3
**(d)** 2 r 5 **(e)** 8 r 5 **(f)** 8 r 6
**(g)** 8 r 2 **(h)** 4 r 3 **(i)** 4 r 1
**(j)** 3 r 2 **(k)** 9 r 5 **(l)** 10 r 3

**2** **(a)** 28 **(b)** 44 **(c)** 46
**(d)** 35 **(e)** 23 **(f)** 53

**3** **(a)** 2, 3, 15 ÷ 6 = 2 r 3
**(b)** 8 × 6 + 4 = 52
**(c)** 4, 4, 24 ÷ 5 = 4 r 4
**(d)** 1 - 5 5 47
**(e)** 7, 5 r 5

**4** **(a)** 3, 1 **(b)** 26 ÷ 4 = 6 r 2
4, 1 26 ÷ 6 = 4 r 2

**5** **(a)** 25 ÷ 6 = 4 (bouquets) r 1 (flower)
**(b)** 58 ÷ 7 = 8 (oranges) r 2 (oranges) 7 × 9 − 58 = 5 (oranges)

**6** 3, 76

## Unit 2.13

**1** **(a)** 20 **(b)** 8
**(c)** 7 **(d)** 54
**(e)** 4 **(f)** 7 r 2
**(g)** 32 **(h)** 48
**(i)** 2 **(j)** 38
**(k)** 50 **(l)** 79
**(m)**33 **(n)** 71

**2** **(a)** 41 5 **(b)** 19 4
**(c)** 31 3 **(d)** 21 1

**3** **(a)** 19 17
**(b)** 35 28

**4** **(a)** 3 × 4 = 12 (chicks)
**(b)** 23 ÷ 4 = 5 (hutches) r 3 (rabbits) 5 + 1 = 6 (hutches)
**(c)** 50 ÷ 9 = 5 (hamsters) r £5
**(d)** 3, 2

**5** **(a)** 6, 5 **(b)** 6, 9 (or 9, 6)
**(c)** 8, 4 (or 4, 8) **(d)** 7, 8 (or 8, 7)

**6** 25

## Chapter 2 test

**1** **(a)** 49 **(b)** 23
**(c)** 66 **(d)** 12
**(e)** 40 **(f)** 8
**(g)** 4 r 2 **(h)** 11
**(i)** 4 **(j)** 0
**(k)** 7 **(l)** 100
**(m)**77 **(n)** 9 1 (answer may vary)
**(o)** 2 4 (answer may vary)
**(p)** 4 5 (answer may vary)

**2** **(a)** 71 **(b)** 27
**(c)** 83 **(d)** 57

**3** **(a)** 45 − 29 = 16
**(b)** 12 × 2 = 24
**(c)** 3 × 3 × 3 = 27
**(d)** 8 × 8 + 3 = 67

**4** **(a)** **(i)** 5 × 4 = 20 (balloons)
**(ii)** 4 × 3 = 12 (pens)
**(iii)** 19 + 23 = 42 (baskets)
**(b)** **(i)** 50 ÷ 8 = 6 (boxes)
**(ii)** 2 (cartons)
**(c)** 3 × 7 = 21 (days)
**(d)** 8 × 4 + 4 = 36 (flowers)
**(e)** 5 × 9 = 45 (cupcakes) 72 − 45 = 27 (cupcakes)

**5** **(a)** **(i)** 4, 40 ÷ 10 = 4
**(ii)** 12 ÷ 3 = 4, 12, 4, 3
12 ÷ 4 = 3, 12, 4, 3
**(iii)** 6 6 × 2 = 12 answers may vary
**(b)** **(i)** 5 9
10 11
**(ii)** 6, 2, 1 (answer may vary)
2 × 5 (answer may vary)
**(iii)** 44 − 40 = 4
**(iv)** less 3
**(v)** 39
**(vi)** 25
**(c)** **(i)** ✗
**(ii)** ✓
**(iii)** ✗
**(d)** **(i)** B
**(ii)** C
**(iii)** D

# Chapter 3 Knowing numbers up to 1000

## Unit 3.1

**1** **(a)** 49 **(b)** 8 **(c)** 27
**(d)** 5 r 5 **(e)** 80 **(f)** 40
**(g)** 57 **(h)** 10 r 4 **(i)** 0
**(j)** 100 **(k)** 63 **(l)** 7

**2** **(a)** **(ii)** 306 three hundred and six
**(iii)** 420 four hundred and twenty
**(iv)** 404 four hundred and four
**(v)** 1000 one thousand
**(b)** **(i)** 605 six hundred and five
**(ii)** 824 eight hundred and twenty-four

**3** **(a)** 8, 5, 6
**(b)** ones second fourth
**(c)** seven hundred and seven 7, 7, 693
**(d)** 403 four hundred and three

**4** **(a)** 400 + 60 + 2
**(b)** 1000 + 0 + 50 + 0
**(c)** 700 + 80 + 8
**(d)** 390
**(e)** 808

**5** 60

**6** 8, 8

## Unit 3.2

**1** **(a)** 56 **(b)** 26
**(c)** 165 **(d)** 39
**(e)** 12 **(f)** 62
**(g)** 29 **(h)** 1
**(i)** 48 **(j)** 50

**2** **(a)** 334
**(b)** 505

**3** **(a)** six hundred and thirty-five
**(b)** three hundred and two
**(c)** 936
**(d)** one thousand
**(e)** 400

**4** **(a)** 408 three 4 8
**(b)** 460
**(c)** 1000 5
**(d)** 299 301
**(e)** 47

**5** **(a)** 

**(b)** 


**6** 4 420 > 402 > 240 > 204

## Unit 3.3

**1** **(a)** Numbers correctly marked on the number line
**(b)** A = 457 B = 479 C = 462 D = 500 E = 491 F = 505

**2** **(a)** **(i)** 277 279
**(ii)** 998 1000
**(iii)** 405 407
**(b)** **(i)** 380 400
**(ii)** 450 460
**(iii)** 780 790
**(c)** **(i)** 600 700
**(ii)** 400 500
**(iii)** 700 800

**3** **(a)** 570 571
**(b)** 410 430
**(c)** 740 739
**(d)** 350 450

**4** **(a)** 439 499
**(b)** 888
**(c)** 499 501
**(d)** 1000 > 888 > 654 > 501 > 499 > 439 > 328 > 92

**5** **(a)** 499 500 501 502 503 504
**(b)** 100 200 300 400 500 600 700 800
**(c)** 100 111 122 133 144 155 166 177 188 199

**6** 492 663 834

**7** 20 120 22

## Unit 3.4

**1** **(a)** Numbers correctly marked on the number line
**(b)** 3, 5, 9, 1, 8, 8
**(c)** 13, 65, 1, 71, 98, 18
**(d)** B < D < A < C < E < F

**2** **(a)** 300 295 280 275
**(b)** 490 492
**(c)** 423 523 623

**3** **(a)** 751 > 715 > 517 > 175 > 157 > 117
**(b)** 668 < 689 < 869 < 886 < 898 < 969
**(c)** 967 > 867 > 767 > 667 > 567 > 467 > 367 > 267 > 167

**4** **(a)** < **(b)** > **(c)** <
**(d)** < **(e)** > **(f)** >
**(g)** < **(h)** <
**(i)** =

**5** **(a)** 5 **(b)** 9 **(c)** 9
**(d)** 2 **(e)** 5 **(f)** 9

**6** 198 − 99 = 99

**7** 70 ÷ 8 = 8 r 6

## Unit 3.5

**1** **(a)** 734 Seven hundred and thirty-four
**(b)** 430 Four hundred and thirty
**(c)** 301 Three hundred and one
**(d)** 400 Four hundred

**2** **(a)**

| Hundreds | Tens | Ones |
|---|---|---|
| ●●● ●● | | ●●●● ●●● |

**(b)**

| Hundreds | Tens | Ones |
|---|---|---|
| ●●●● ●●●● | | |

**3** 364 Three hundred and sixty-four

| Hundreds | Tens | Ones |
|---|---|---|
| ●●● | ●●●●●● | ●●●● |

274 Two hundred and seventy-four

| Hundreds | Tens | Ones |
|---|---|---|
| ●● | ●●●●●●● | ●●●● |

25 Two hundred and sixty-five

| Hundreds | Tens | Ones |
|---|---|---|
| ●● | ●●●●●● | ●●●●● |

**4** 8

**5** 1, 1

## Unit 3.6

**1** **(a)** 300 Three hundred

| Hundreds | Tens | Ones |
|---|---|---|
| ●●● | | |

**(b)** 210 Two hundred and ten

| Hundreds | Tens | Ones |
|---|---|---|
| ●● | ● | |

**(c)** 201 Two hundred and one

| Hundreds | Tens | Ones |
|---|---|---|
| ●● | | ● |

**(d)** 120 One hundred and twenty

| Hundreds | Tens | Ones |
|---|---|---|
| ● | ●● | |

**(e)** 111 One hundred and eleven

| Hundreds | Tens | Ones |
|---|---|---|
| ● | ● | ● |

**(f)** 102 One hundred and two

| Hundreds | Tens | Ones |
|---|---|---|
| ● | | ●● |

**2** 153 One hundred and fifty-three

| Hundreds | Tens | Ones |
|---|---|---|
| ● | ●●●●● | ●●● |

**(a)** 63 Sixty-three

| Hundreds | Tens | Ones |
|---|---|---|
| | ●●●●●● | ●●● |

**(b)** 54 Fifty-four

| Hundreds | Tens | Ones |
|---|---|---|
| | ●●●●● | ●●●● |

**(c)** 243 Two hundred and forty-three

| Hundreds | Tens | Ones |
|---|---|---|
| ●● | ●●●● | ●●● |

**(d)** 144 One hundred and forty-four

| Hundreds | Tens | Ones |
|---|---|---|
| ● | ●●●● | ●●●● |

**(e)** 252 Two hundred and fifty-two

| Hundreds | Tens | Ones |
|---|---|---|
| ●● | ●●●●● | ●● |

**(f)** 162 One hundred and sixty-two

| Hundreds | Tens | Ones |
|---|---|---|
| ● | ●●●●●● | ●● |

**3** **(a)** 600 + 40 + 3
**(b)** 338
**(c)** 300 + 0 + 2
**(d)** 909

**4** 24

**5** 13

## Chapter 3 test

**1** **(a)** 35 **(b)** 40
**(c)** 27 **(d)** 9
**(e)** 5 **(f)** 32
**(g)** 680 **(h)** 31
**(i)** 810 **(j)** 79
**(k)** 75 **(l)** 70

**2** **(a)** One hundred and sixty-five

**(b)** Six hundred and eight

**3** **(a)** 1000 One thousand
**(b)** 166 One hundred and sixty-six

**4** **(a)** 8 × 2 − 10 = 6
**(b)** 31 − 15 + 27 = 43
**(c)** 7 + 7 = 14

**5** **(a)** 698 702
**(b)** **(i)** Numbers correctly marked on the number line
**(ii)** 483 501 539 578 550
**(c)** three hundreds 2 4 7
**(d)** 99 199
**(e)** **(i)** 13
**(ii)** 50
**(iii)** 742
**(f)** 380
**(g)** 1000 > 968 > 806 > 405 > 380 > 45

**6** **(a)** ✗
**(b)** ✓
**(c)** ✓
**(d)** ✓

**7** **(a)** C
**(b)** D
**(c)** B
**(d)** D

**8** 6 × 9 = 54 54 (books)

**9** 8 × 2 + 3 × 4 = 28 28 (legs)

**10** 30 ÷ 4 = 7 (cars) r 2 (children) 7 + 1 = 8 (cars)

**11** 34 + 18 = 52 (volleyballs) 52 + 28 = 80 (basketballs)

# Chapter 4 Statistics (II)

## Unit 4.1

**1** **(a)** Values correctly inserted in the table: 20 under Group A, 30 under Group B and 10 under Group C
**(b)** Pictogram with 2 circles in Group A, 3 circles in Group B and 1 circle in group C
**(c)** A block diagram with shaded cells, 4 for Group A, 6 for Group B and 2 for Group C

**2** Values correctly inserted in the table: 6 under science, 8 under story book, 12 under comic and 10 under puzzle

**3** **(a)** 1
**(b)** Football swimming 5
**(c)** Basketball tennis
**(d)** 35

**4** Answers may vary

## Unit 4.2

**1** **(a)** 2
**(b)** 16, 12
**(c)** 4
**(d)** 16
**(e)** 2

**2** **(a)** 16, 6, 10, 8, 20
**(b)** toy aeroplane puppy 14
**(c)** 60

**3** Bar chart with correct height bars as given in the table

**4** **(a)** Maya Ella
**(b)** 7
**(c)** 8

## Unit 4.3

**1** **(a)** **(i)** 2
**(ii)** 11
**(iii)** 10
**(b)** 23
**(c)** Correctly constructed and labelled bar chart

**2** **(a)** Joe Sarah Asif Lila Tom
**(b)** Correctly constructed and labelled bar chart

**3** **(a)** 2
**(b)** football badminton
**(c)** 33
**(d)** 1

## Chapter 4 test

**1** **(a)** 1 child 5 children
**(b)** 2 metres 12 metres
**(c)** 1 unit 5 units

**2** **(a)** 2
**(b)** bus 14 bicycle 6
**(c)** 26 **(d)** 42

**3** **(a)** Values correctly inserted in the table: 7 under Brand A, 14 under Brand B, 15 under Brand C and 14 under Brand D
**(b)** Brand C Brand A
**(c)** Brand B Brand D
**(d)** 50

**4** **(a)** 4 28 4
**(b)** bar 3 and a half units high drawn for strawberry
**(c)** Answer may vary

# Chapter 5 Introduction to time (III)

## Unit 5.1

**1** **(a)** 60
**(b)** 60
**(c)** 30
**(d)** 600

**2** Times matched to correct clock faces

**3** **(a)** seconds
**(b)** hour
**(c)** hours
**(d)** minute

**4** Answers may vary

**5** **(a)** 30
**(b)** 300
**(c)** 45
**(d)** 2
**(e)** 100
**(f)** 150
**(g)** 1 30
**(h)** 1 40

**6** **(a)** 3:30
**(b)** 7:35
**(c)** 11:33
**(d)** 7:47

**7** 11:32 reasons may vary

## Unit 5.2

**1** **(a)** 24
**(b)** 12
**(c)** 12
**(d)** morning
**(e)** afternoon

**2** 1, 10, 2, 6, 11
12, 7, 3, 5, 4, 8

**3** 8:05 10:31 3:07 12:00

**4** 08:00 1:36 p.m. 11:58 p.m. 24:00

**5** **(a)** 01:20 13:20
**(b)** 07:17 19:17
**(c)** 11:00 23:00

**6** 7:30 10:30, 16:30 19:30 or 4:30 p.m. 7:30 p.m. 6

**7** Items linked: 19:15 to 'a quarter past seven'
22:30 to 'half past ten'
16:25 to 4:25
9:25 to 21:25

## Unit 5.3

**1** **(a)** ✓
**(b)** ✓
**(c)** ✗
**(d)** ✓
**(e)** ✗

**2** Table correctly completed: 31 28 31 30 31 30 31 31 30 31 30 31

**3** **(a)** 30 June September November
**(b)** 25 December January March May July August October
**(c)** February 28
**(d)** 365

**4** (Answer may vary) Years with 365 days have 28 days in February and years with 366 days have 29 days in February.

**5** **(a)** 28
**(b)** 29
**(c)** 365 366
**(d)** 2020 2024

**6** (Answer may vary) for example, twenty-ninth of February 2004

## Unit 5.4

**1** **(a)** > **(b)** >
**(c)** > **(d)** <
**(e)** > **(f)** <

**2** **(a)** 4
**(b)** 45
**(c)** 2 10
**(d)** 22:05

**3** **(a)** 8:30 a.m. 9:00 p.m.
**(b)** 12 30
**(c)** yes 40 minutes

**4** 17 days

**5** **(a)** Second promotion 10 days
**(b)** First promotion 8 days
**(c)** 27 days

**6** 42 25

## Chapter 5 test

**1** **(a)** 2:23 **(b)** 4:41
**(c)** 11:52 **(d)** 10:09

**2** Hands correctly drawn on clock faces

**3** **(a)** 120
**(b)** 48
**(c)** 70
**(d)** 1 40
**(e)** 90
**(f)** 1 25

**4** **(a)** =
**(b)** =
**(c)** >
**(d)** >
**(e)** <
**(f)** <

**5** **(a)** ✗
**(b)** ✓
**(c)** ✗
**(d)** ✗

**6** **(a)** 3:38 p.m.
**(b)** 11:40 a.m.
**(c)** 18:30
**(d)** 84

**7** 2 × 7 − 2 = 12 (days)

**8** **(a)** 4:00 **(b)** 4:25 **(c)** 4:40
**(d)** 5:05
**(e)** 25 minutes
**(f)** 15 minutes
**(g)** 25 minutes

# Chapter 6 Consolidation and enhancement

## Unit 6.1

**1** **(a)** 4 2 6 18
**(b)** 3 2 3 2 6 2 12

**2** Correctly completed table:
2 times: 2 4 6 8 10 12 14 16 18 20
4 times: 4 8 12 16 20 24 28 32 36 40
6 times; 6 12 18 24 30 36 42 48 54
60 6 answer may vary, for example,
2 × 5 + 4 × 5 = 6 × 5 = 30

**3** **(a)** 8 48
**(b)** 9 36
**(c)** 2 20
**(d)** 9 63

**4** **(a)** 48 **(b)** 63
**(c)** 90 **(d)** 18

**5** **(a)** 1 **(b)** 2
**(c)** 3 **(d)** 7, 7

**6** 2 × 9 + 3 × 9 = £45

**7** **(a)** 5 **(b)** 5

**8** **(a)** 9 × 5 = 8 × 5 + 1 × 5
**(b)** 9 × 5 = 7 × 5 + 2 × 5
**(c)** 9 × 5 = 6 × 5 + 3 × 5
**(d)** 9 × 5 = 5 × 5 + 4 × 5
**(e)** 9 × 5 = 3 × 5 + 3 × 5 + 3 × 5
(answers may vary)

## Unit 6.2

**1** **(a)** 6 3 3 6
**(b)** 6 3 2 3 4 3 12

**2** Correctly completed table:
9 times: 9 18 27 36 45 54 63 72 81 90
5 times: 5 10 15 20 25 30 35 40 45 50
4 times: 4 8 12 16 20 24 28 32 36 40
4 answer may vary, for example, 9 × 6 –
5 × 6 = 4 × 6 = 24

**3** **(a)** 3, 18
**(b)** 1, 4
**(c)** 3, 15
**(d)** 3, 7, 21
**(e)** 6, 5, 30

**4** **(a)** 16
**(b)** 42
**(c)** 81
**(d)** 18

**5** **(a)** 2
**(b)** 3
**(c)** 10
**(d)** 7 7 4

**6** 8 × 9 − 3 × 9 = 5 × 9 = £45

**7** **(a)** 7, 8
**(b)** 4, 5
**(c)** 2
**(d)** 2, 3, 2

**8** **(a)** 3 × 6 = 4 × 6 − 1 × 6
**(b)** 3 × 6 = 5 × 6 − 2 × 6
**(c)** 3 × 6 = 6 × 6 − 3 × 6
**(d)** 3 × 6 = 10 × 6 − 5 × 6 − 2 × 6
(answers may vary)

## Unit 6.3

**1** **(a)** 24 **(b)** 56
**(c)** 45 **(d)** 100
**(e)** 6 **(f)** 8
**(g)** 5 **(h)** 10
**(i)** 4 **(j)** 7
**(k)** 9 **(l)** 0

**2** **(a)** 8 **(b)** 6
**(c)** 9 **(d)** 7
**(e)** 5 **(f)** 9

**3** **(a)** 42 ÷ 7 = 6 6 (rows)
**(b)** 42 ÷ 6 = 7 7 (sets)
**(c)** 6 × 7 = 42 42 (sets)

**4** **(a)** 6 × 6 = 36 (deer)
**(b)** 10 × 4 = 40 (models) 40 > 32 the boys have made more
**(c)** 27 ÷ 4 = 6 (taxis) r 3 (people)
6 + 1 = 7 (taxis)
**(d)** 4 3 31 ÷ 7 = 4 r 3

**5** 21 cupcakes

**6** 32

## Unit 6.4

**1** **(a)** even **(b)** even
**(c)** odd **(d)** odd

**2** **(a)** 8 + 2 = 10
**(b)** 6 + 4 = 10
**(c)** 6 + 5 = 11

**3** **(a)** 11 13 15
**(b)** 12 14 16
**(c)** 20 18 16
**(d)** 10 13 12 15

**4** **(a)** 5 1
**(b)** 3 1

**5** **(a)** Answer may vary, for example, 1, 3, 5, 7, 9
**(b)** Answer may vary, for example, 2, 4, 6, 8, 10
**(c)** 31 33 35 37 39
**(d)** 60 62 64 66 68
**(e)** Answers may vary, for example, 20 22 24 26

**6** **(a)** 4
**(b)** 9
**(c)** 4, 16
**(d)** 5, 5, 25
**(e)** 9, 11, 6, 6, 36

**7** **(a)** 9 **(b)** 10 **(c)** 10
**(d)** 11 **(e)** 12 **(f)** 12
**(g)** 13 **(h)** 14 **(i)** 14
**(j)** 15 **(k)** 16 **(l)** 16

**8** **(a)** odd number
**(b)** even number
**(c)** even number

## Unit 6.5

**1** All the sums are 15.

**2** ✗✓

**3** 3 9 1 2 7 8 5 4 2

**4** 15:4 9 7 8 1 6 18:7 2 4 3 10 5
21:6 11 5 7 9 3

**5** 5 7 3 5

**6** (Answers may vary)

## Unit 6.6

**1** **(a)** 69 **(b)** 36
**(c)** 8 **(d)** 197
**(e)** 0 **(f)** 82

**2** ten thousands thousands hundreds

**3** 3000 5000 7000 9000 11 000

**4** **(b)** 0 9 9 9 0 **(c)** 1 0 0 0 8 **(d)** 0 2 0 0 6

**5** **(a)** Two thousand two hundred and two 2202
**(b)** Ten thousand 10 000
**(c)** Five thousand two hundred and thirty 5230
**(d)** Four thousand and fifty-three 4053

**6** **(a)** 10, 100, 1000, 10 000
**(b)** ones hundreds ten thousands
**(c)** 7523
**(d)** 6, 60, 17
**(e)** 9999, 10 000, 10 001

**7** **(a)** 5080, 5081
**(b)** 5656, 6767
**(c)** 9970, 9960, 9950

## Unit 6.7

**1** **(a)** 80 **(b)** 12
**(c)** 51 **(d)** 15
**(e)** 85 **(f)** 5
**(g)** 50 **(h)** 143
**(i)** 38 **(j)** 42

**2** 6348, 5050, 13 004
Nine thousand and eight
Four thousand four hundred and fifteen
Nineteen thousand and six

**3** **(a)** Four thousand six hundred and thirty-two 4000 + 600 + 30 + 2
**(b)** Two thousand five hundred and forty-seven 2000 + 500 + 40 + 7
**(c)** Six thousand and three 6000 + 0 + 0 + 3
**(d)** Two thousand and thirty 2000 + 0 + 30 + 0

**4** **(a)** 1812
**(b)** 4050
**(c)** 6500
**(d)** 5006

**5** **(a)** > **(b)** > **(c)** >
**(d)** > **(e)** > **(f)** <
**(g)** < **(h)** < **(i)** <

**6** **(a)** B
**(b)** C
**(c)** C

**7** **(a)** 209 < 367 < 627 < 736
**(b)** 7800 < 8007 < 8070 < 8700

**8** **(a)** 95 400
**(b)** Answers may vary, for example, 95 400, 94 500, 45 900
**(c)** Answers may vary, for example, 90 045, 90 054, 95 004
**(d)** Answers may vary, for example, 90 540, 95 400, 94 500

## Chapter 6 test

**1** **(a)** 24 **(b)** 45
**(c)** 4 r 4 **(d)** 24
**(e)** 63 **(f)** 8 r 2
**(g)** 100 **(h)** 56
**(i)** 6 **(j)** 0
**(k)** 25 **(l)** 27
**(m)** 36 **(n)** 6

**2** **(a)** 6 **(b)** 5
**(c)** 4 **(d)** 2

**3** **(a)** + **(b)** × **(c)** ÷
**(d)** × **(e)** − **(f)** ÷

**4** **(a)** = **(b)** > **(c)** <

**5** **(a)** 9, 72
**(b)** 6, 36
**(c)** 6 (answers may vary)
**(d)** 56
**(e)** 2 (answers may vary)

**6** **(a)** 8 × 8, 6 × 7, 7 × 8, 6 × 8
**(b)** 1, 8, 7, 2, 9, 4

**7** **(a)** 5, 25
**(b)** 6, 35
**(c)** 72

**8** **(a)** 3
**(b)** 32
**(c)** 5

**9** **(a)** 4005
**(b)** 6800
**(c)** 1052
**(d)** 10 039

**10** **(a)** 1, 5, One thousand and five
**(b)** 105 < 501 < 1005 < 1050 < 5001

**11** **(a)** 4200
**(b)** 2004
**(c)** Answers may vary, for example, 4020, 2004
**(d)** 4200, 4020, 2040, 2400

**12** **(a)** 6 × 5 = 30 (cups)
**(b)** 32 ÷ 8 = 4
**(c)** 27 ÷ 6 = 4 (boats) r 3 (people)
4 + 1 = 5 (boats)
**(d)** 2 × 9 = £18 18 > 17 no, not enough
**(e)** 6 × 5 = 30 (apples) 30 < 32 the girls have more apples

**13** **(a)** Correctly drawn and labelled bar chart (answer may vary)
**(b)** 6
**(c)** softball and gymnastics
**(d)** swimming 3 badminton
**(e)** 48