

# Answers

## Chapter 1 Numbers up to 10

### Unit 1.1

- 1 Lines should join:  
bird and eggs  
shoes and feet  
flower and vase  
pencil and notepad  
squirrel and tree
- 2 Lines should join:  
butterflies and triangles  
apples and circles  
books and hearts  
cars and squares
- 3 1, 3, 4, 6, 7, 10, 2, 7, 10, 5
- 4 Check pupil's shading matches pattern.

### Unit 1.2

- 1 toys: doll, teddy, football, car, helicopter, bricks  
art and craft: pens, crayons, notebook, scissors, paintbrushes, paints
- 2 Check pupil's answers make sense.
- 3 There should be a circle around the milk, the vase, the bicycle and the cylinder.
- 4 In the air: 3, 6, 8  
On land: 1, 4, 7, 10  
In the water: 2, 5, 9  
Alternative groupings may vary. Check that they make sense.

### Unit 1.3

- 1 Sets should be as follows:  
(a) chicks and hens  
(b) girls and boys  
(c) apples and strawberries  
(d) vases of flowers and empty vase  
(e) cats and mice  
(f) presents and cards  
(g) pencils and rulers  
(h) balloons and kites
- 2 Check pupil's groups make sense.
- 3 Animals with four legs: dog, monkey, squirrel, horse, cat  
Animals that can climb trees: monkey, squirrel, cat  
Animals in both sets: monkey, squirrel, cat

### Unit 1.4

- 1 1: watermelon, 2: pineapples, 3: pears, 4: bananas, 5: apples, 6: plums, 7: kiwi fruit, 8: oranges, 9: bunches of grapes, 10: grapes
- 2 triangles: 8  
circles: 10  
squares: 9

### Unit 1.5

- 1 3, 1, 2, 5, 4  
two, 2  
three, 3  
one, 1  
five, 5  
four, 4  
8, 9, 10  
seven, 7  
ten, 10  
six, 6  
three, 3
- 2 triangle, 2  
circle, 3  
square, 1  
rectangle, 3

### Unit 1.6

- 1 Sets should be as follows, in any order:  
1  
2, 3 and 4  
5 and 6  
7 and 8
- 2 (a) 2, 3, 4  
(b) 2, 2, 6, 3  
(c) 3, 3, 2, 4, 1
- 3 The first and third towers should be shaded.

### Unit 1.7

- 1 5, 8, 10  
9, 5, 6
- 2 Check that 6, 7, 8, 9 and 10 circles have been shaded.
- 3 10
- 4 Check that pupils have circled 10 of each animal.
- 5 10

### Unit 1.8

- 1 (a) 3, 2, 1, 0  
(b) 6, 4, 0
- 2 5, 9, 8, 0, 3
- 3 Check that pupils have drawn 10, 0, 7, 4 triangles.
- 4 0 cm
- 5 0, 5, 10

### Unit 1.9

- 1 5, 3; 2, 4; 5, 4  
1, 4; 5, 5; 6, 1
- 2 0, 5  
1, 4  
2, 3  
3, 2  
4, 1  
5, 0
- 3 Pupils should add the following numbers of eggs:  
7, 4, 4  
2, 7, 4
- 4 Check pupil's answers add to 8.
- 5 8, 4, 4 and 10, 5, 5

### Unit 1.10

- 1 5, first, fourth
- 2 (a) 10, tenth, fourth, first, seventh  
(b) sixth, second, 7, 3, 3, 2
- 3 Check that five of the hearts are coloured in the first set and the fifth heart is coloured in the second set.
- 4 (a) 3 white triangles  
(b) 2 white circles

### Unit 1.11

- 1 10, 5
- 2 third, fourth, first, second, sixth, fifth
- 3 fifth, sixth, second, first, fourth, third
- 4 Check that there is a triangle in the fifth place, a circle in the tenth place, a square in the third place and two hearts in the seventh place.
- 5 second, third, first, fourth

**Unit 1.12**

- The following sets should be ticked:  
(a) toothbrushes  
(b) shorts
- The following sets should be ticked:  
(a) strawberries  
(b) triangles
- 4, 5, 1, 1 (cylinders and cubes)  
3, 7, 4, 4 (stars)
- Check that pupils have drawn:  
4 circles  
7 triangles  
2 squares
- Pencil 2 should be coloured.

**Unit 1.13**

- $> = <$
- $4 = 4, 3 < 5, 4 > 2$
- Pupils should draw more than three circles, less than three triangles, and five rectangles.
- $< > > =$   
 $> < = <$
- Answers will vary. Check that they make sense.
- The third glass should be circled.

**Unit 1.14**

- b should be ticked
- (a) 2, 3, 4, 5, 6, 7, 9  
(b) 0, 4, 6, 10
- (a) 3, 2, 6  
(b) 2, 4, 2, 8, 4
- (a) Check that 7, 0, 3, 2 and 9 are circled.  
(b) 0, 2, 3, 7, 9  
(c) 10, 8, 6, 5, 1
- Answers will vary. Check that they make sense.

**Chapter 1 test**

- Lines should join:  
plant and plant pot  
fork and knife  
scarf and gloves  
monkey and bananas  
cake and present
- Lines should join:  
strawberries and seven  
bananas and three  
apples and ten circles  
cherries and 4  
oranges and five circles

- Groupings will vary. Check that they make sense.
- third, fifth, sixth, seventh, seven
- (a) The first four apples should be shaded.  
The fourth apple should be shaded.  
(b) The second strawberry should be shaded.  
All except the first strawberry should be shaded.
- five, 3, second, fourth, 2
- 3, 2, 1, 4
- 0, 2, 3, 4, 6, 7, 9, 10
- (a) 1, 3, 5, 7, 9  
1, 2, 9  
(b) 9, 3, 0
- squares, 3, circles/triangles, triangles/circles
- $< > = > >$   
8  
The remaining answers will vary. Check that they make sense.
- (a) 2, 4, 5, 8, 9, 10  
(b) 10, 7, 6, 4, 1, 0

**Chapter 2 Addition and subtraction within 10**

**Unit 2.1**

- 0, 4; 1, 4  
1, 3; 2, 3  
2, 2; 3, 2  
3, 1; 4, 1  
4, 0; 5, 0
- 3, 5
- 3, 7, 4, 3  
5, 5, 7, 0, 2
- (a)  $5 + 1 = 6$   
 $4 + 2 = 6$   
 $3 + 3 = 6$   
 $2 + 4 = 6$   
 $1 + 5 = 6$   
(b)  $9 + 1 = 10$   
 $8 + 2 = 10$   
 $7 + 3 = 10$   $3 + 7 = 10$   
 $6 + 4 = 10$   $2 + 8 = 10$   
 $5 + 5 = 10$   $1 + 9 = 10$   
 $4 + 6 = 10$

**Unit 2.2**

- 8, 9, 5, 10, 10
- $3 + 4 = 7$   $3 + 2 = 5$   $6 + 4 = 10$   
 $4 + 3 = 7$   $2 + 3 = 5$   $4 + 6 = 10$   
 $2 + 6 = 8$   $5 + 4 = 9$   $1 + 7 = 8$   
 $6 + 2 = 8$   $4 + 5 = 9$   $7 + 1 = 8$

- 10, 6, 8, 10, 6  
8, 10, 7, 3, 10
- Lines should be joining:  
 $1 + 3$  and  $2 + 2$   
 $1 + 1$  and  $0 + 2$   
 $5 + 2$  and  $1 + 6$  and  $4 + 3$   
 $3 + 5$  and  $8 + 0$
- $5 + 0 = 5$   $2 + 3 = 5$   
 $4 + 1 = 5$   $1 + 4 = 5$   
 $3 + 2 = 5$   $0 + 5 = 5$   
(These calculations may appear in any order.)

**Unit 2.3**

- (a)  $0 + 8 = 8$   $1 + 7 = 8$   $2 + 6 = 8$   
 $3 + 5 = 8$   $4 + 4 = 8$   $5 + 3 = 8$   
 $6 + 2 = 8$   $7 + 1 = 8$   $8 + 0 = 8$   
(b) Ensure that the coloured dots match the additions. The calculations may appear in a different order.  
 $9 + 0 = 9$   $1 + 8 = 9$   $2 + 7 = 9$   
 $3 + 6 = 9$   $4 + 5 = 9$   $5 + 4 = 9$   
 $6 + 3 = 9$   $7 + 2 = 9$   $8 + 1 = 9$
- $4 + 3 = 7$   $5 + 5 = 10$   
 $1 + 7 = 8$   $6 + 4 = 10$

- 8, 10, 7  
4, 8, 6  
4, 8, 10  
6, 9, 9
- Answers will vary. Possible answers include:  
 $2 + 3 = 5$   
 $3 + 4 = 7$   
 $5 + 4 = 9$   
 $4 + 2 = 6$

**Unit 2.4**

- $6 + 4 = 10$   
 $4 + 4 = 8$   $6 + 3 = 9$   
 $3 + 4 = 7$   $3 + 7 = 10$
- 7, 3, 8  
6, 9, 7  
5, 1, 3  
 $+3, +6, +0$
- 8, 8, 8  
5, 8, 9  
8, 5, 10  
10, 6, 4  
10, 9  
8, 6
- (a) 6 and 2  
(b) six triangles

**Unit 2.5**

- 1  $6 + 3 = 9$   $3 + 4 = 7$   
 $5 + 2 = 7$   $4 + 5 = 9$   
 $3 + 6 = 9$   $4 + 2 = 6$   
 $4 + 5 = 9$  and  $5 + 4 = 9$  (in any order)  
 $3 + 6 = 9$  and  $6 + 3 = 9$  (in any order)
- 2 7, 6, 8  
 8, 9, 10  
 10, 7, 10  
 7, 6, 1  
 3, 5, 9
- 3 5, 9, 5, 8  
 4, 10, 6, 9  
 6, 7, 9, 7  
 10, 7, 9, 10
- 4 Pairs of calculations can be in either order:  
 $4 + 1 = 5$   $1 + 4 = 5$   
 $4 + 3 = 7$   $3 + 4 = 7$   
 $6 + 4 = 10$   $4 + 6 = 10$   
 $4 + 2 = 6$   $2 + 4 = 6$   
 $5 + 2 = 7$   $2 + 5 = 7$   
 $2 + 1 = 3$   $1 + 2 = 3$   
 $3 + 0 = 3$   $0 + 3 = 3$   
 $5 + 3 = 8$   $3 + 5 = 8$   
 $2 + 2 = 4$   
 $4 + 0 = 4$   $0 + 4 = 4$   
 $2 : 2$

**Unit 2.6**

- 1  $6 - 2 = 4$   
 $6 - 4 = 2$   
 $7 - 2 = 5$   
 $9 - 3 = 6$   $10 - 8 = 2$
- 2 4, 1, 2, 0  
 1, 3, 5, 5  
 5, 1, 2, 2  
 0, 2, 3, 3
- 3 6, 6, 2, 8, 0  
 6, 0, 1, 1, 2
- 4 Calculations may appear in any order:  
 $10 - 5 = 5$   $7 - 2 = 5$   
 $9 - 4 = 5$   $6 - 1 = 5$   
 $8 - 3 = 5$   $5 - 0 = 5$

**Unit 2.7**

- 1 2, 4, 2, 3, 8
- 2  $7 - 4 = 3$   $10 - 6 = 4$   
 $8 - 5 = 3$   $10 - 3 = 7$   
 $9 - 7 = 2$   $7 - 2 = 5$
- 3 3, 1, 2  
 8, 1, 8  
 3, 0, 5  
 -4, -3, -6
- 4 4, 0, 5, 5  
 1, 5, 3, 1  
 3, 4, 3, 5  
 8, 1, 0, 2

- 5  $2 - 0 = 2$   $3 - 1 = 2$   
 $4 - 2 = 2$   $5 - 3 = 2$   
 $6 - 4 = 2$   $7 - 5 = 2$   
 $8 - 6 = 2$   $9 - 7 = 2$

**Unit 2.8**

- 1  $7 - 1 = 6$   $9 - 5 = 4$   
 $8 - 3 = 5$   $9 - 3 = 6$   
 $7 - 4 = 3$   $8 - 5 = 3$   
 $10 - 5 = 5$   $6 - 6 = 0$
- 2 4, 5, 3  
 3, 4, 6  
 7, 3, 10
- 3 3, 6, 0, 6  
 3, 1, 3, 5  
 7, 3, 1, 3
- 4  $6 + 4 = 10$   
 $6 - 4 = 2$   
 $6 - 4 = 2$

**Unit 2.9**

- 1  $6 - 2 = 4$   $10 - 7 = 3$   
 $8 - 5 = 3$   $7 - 4 = 3$   
 $9 - 4 = 5$   $7 - 5 = 2$
- 2 4, 4, 2, 3  
 3, 1, 7, 1  
 4, 2, 9, 4  
 8, 1, 0
- 3 3, 9, 0, 4  
 10, 6, 7, 7  
 9, 3, 1, 1  
 3, 10, 4, 2
- 4 4, 6  
 9, 2

**Unit 2.10**

- 1  $5 + 2 = 7$   $7 - 2 = 5$   
 $6 + 3 = 9$   $9 - 3 = 6$   
 $10 - 3 = 7$   $7 + 3 = 10$
- 2 8, 9, 6, 4  
 9, 9, 10, check pupil's answers
- 3 5 10 5  
 1 6 3  
 4 4 2  
 9 10 7  
 Check pupils' answers.
- 4 5, 9, 7, 2  
 10, 5, 3, 6  
 10, 4, 0, 10
- 5 Calculations may appear in any order:  
 $10 - 7 = 3$   $6 - 3 = 3$   
 $9 - 6 = 3$   $5 - 2 = 3$   
 $8 - 5 = 3$   $4 - 1 = 3$   
 $7 - 4 = 3$   $3 - 0 = 3$

**Unit 2.11**

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

- 2  $3 + 4 = 7$   
 $0 + 9 = 9$   
 $8 - 6 = 2$
- 3 8, 6, 6, 9  
 4, 10, 10, 2  
 9, 10, 10, 7  
 5, 0, 2, 4
- 4 4, 8, 4  
 3, 0, 9  
 4, 9, 2

- 5 Check pupil's number lines.  
 $2 + 4 = 6$   
 $6 - 5 = 1$

**Unit 2.12**

- 1 Lines should join:  
 1 and 9  
 2 and 8  
 3 and 7  
 4 and 6  
 5 and 5  
 10 and 0
- 2 From left numbers should be:  
 7, 8, 9, 10, 0, 5, 5, 4
- 3 7, 9, 0  
 5, 4, 2
- 4 The following pairs should be joined:  
 $2 + 8$  and  $3 + 7$        $7 - 5$  and  $6 - 4$   
 $4 + 5$  and  $2 + 7$        $9 - 3$  and  $8 - 2$   
 $2 + 6$  and  $5 + 3$        $8 - 4$  and  $9 - 5$   
 $9 - 2$  and  $3 + 4$        $6 - 3$  and  $7 - 4$
- 5 5, 10, 1, 9  
 7, 8, 3, 10  
 2, 4, 4  
 Last 2 could be 10, 7 or 9, 6 or 8, 5 or 7,  
 4 or 6, 3 or 5, 2 or 4, 1 or 3, 0
- 6  $> > >$   
 $< = <$   
 $= < =$
- 7 Answers will vary. Check that they all add to 10.

**Unit 2.13**

- 1  $2 + 3 + 2 = 7$   $3 + 4 + 2 = 9$   
 $3 + 5 + 2 = 10$   $4 + 1 + 3 = 8$
- 2  $1 + 3 + 4 = 8$   
 $0 + 2 + 7 = 9$
- 3 7, 7, 10  
 7, 5, 9  
 9, 10, 10  
 7, 10, 10
- 4 (a)  $3 + 2 + 5 = 10$   
 (b)  $4 + 2 + 2 = 8$
- 5 5, 4; 3, 4  
 6, 2; 1, 4

**Unit 2.14**

- 1  $10 - 2 - 4 = 4$   $10 - 5 - 3 = 2$   
 2  $9 - 5 - 2 = 2$   
 $7 - 1 - 2 = 4$   
 3 1, 0, 2  
 2, 4, 1  
 0, 3, 0  
 4, 2, 2  
 2, 0, 0  
 4 (a)  $9 - 5 - 2 = 2$   
 (b)  $9 - 3 - 4 = 2$   
 5 5, 3; 9, 1  
 3, 6; 9, 8

**Unit 2.15**

- 1  $9 - 4 + 1 = 6$   $9 - 3 + 4 = 10$   
 $5 - 1 + 3 = 7$   $9 - 5 + 2 = 6$   
 2  $2 + 7 - 4 = 5$   
 $10 - 6 + 3 = 7$   
 3  $< =$   
 $= >$   
 $> =$   
 4 9 7  
 6 10  
 3 2  
 1 9  
 6 8  
 10 7  
 5 8, 1; 9, 7  
 8, 5; 1, 0

**Chapter 2 test**

- 1 6, 5, 3, 0  
 0, 9, 3, 10  
 10, 2, 7, 5  
 2 Lines should join:  
 3 + 4 and 1 + 6  
 2 + 2 and 8 - 4  
 10 - 1 and 9 - 0  
 3 (a) +6, 2 + 6 = 8  
 (b) -6, 7 - 6 = 1  
 (c) +5, -2, 3 + 5 - 2 = 6  
 4 Lines should join:  
 4 + 6 - 0 and 10  
 2 + 5 + 3 and 10  
 9 - 2 - 2 and 5  
 7 - 4 + 7 and 10  
 5 + 5 - 5 and 5  
 10 - 1 - 3 and 6  
 8 - 3 + 0 and 5  
 9 - 5 + 2 and 6  
 5  $4 + 2 = 6$   $9 - 5 = 4$   
 $3 + 4 + 3 = 10$   $8 - 4 - 2 = 2$

**Chapter 3 Numbers up to 20 and their addition and subtraction****Unit 3.1**

- 1 13, 12, 16  
 13, 19, 11  
 19, 15, 20  
 2 11, 12, 14, 15, 16, 18, 20  
 14 15 16 (any two of these in ascending order)  
 20 Remaining two numbers may vary but both should be less than 19, with the first number bigger than the second.  
 3 12, 10, 8 10, 5  
 15, 13, 11, 7, 5, 3, 1  
 4 (a) Green line should join 11, 13, 15, 17, 19  
 Red line should join 10, 12, 14, 16, 18, 20  
 (b) 11, 13, 15, 17, 19  
 10, 12, 14, 16, 18, 20

**Unit 3.2**

- 1 Line should be joining:  
 hearts and 14  
 stars and 15  
 circles and 11  
 2 14 13  
 $10 + 4$   $10 + 3$   
 16 18  
 $10 + 6$   $10 + 8$   
 20 17  
 $10 + 10$   $10 + 7$

- 3  $12 - 2 = 10$   $10 + 5 = 15$   
 $10 + 10 = 20$   $16 - 6 = 10$   
 4 12 15 19  
 12 15 19  
 8 6 3  
 10 10 10  
 5 4 7 10  
 10 10 10  
 2 6

**Unit 3.3**

- 1 3, 4, 6, 8, 9  
 12, 14, 15, 17, 19, 20  
 1, 4, 5, 6, 10  
 12, 13, 14, 16, 17, 20  
 2 Check that all odd numbered beads are shaded.  
 Check that all even numbered beads are shaded.  
 Check that 5, 10, 15 and 20 are shaded.  
 3 10, 12, 13, 15, 16, 17, 19, 20  
 (a) 14, 16  
 (b) 19, 10  
 (c) 12  
 (d) 13, 14, 15, 16, 17  
 (e) 16, 17, 18, 19  
 4 (a) 1, 3, 5, 7, 9  
 (b) 20, 19, 18, 17, 16, 15  
 (c) 3, 4, 5, 6, 7  
 (d) 4, 8, 12, 16, 20

- 5 (a) 8 should be circled: 3, 5, 7, 9  
 (b) 9 should be circled: 2, 4, 6, 8  
 (c) 18 should be circled: 17, 15, 13, 11  
 (d) 13 should be circled: 6, 9, 12, 15, 18  
 6 (a) Any one of 13 or 14  
 (b) Any one of 17, 18 or 19  
 (c) Answers will vary. One possible answer is 3, 5, 7, 9, 11, 13, 15

**Unit 3.4**

- 1  $2 + 6 = 8$   $12 + 6 = 18$   
 $8 - 6 = 2$   $18 - 6 = 12$   
 $10 + 7 = 17$   $19 - 9 = 10$   
 $18 - 6 = 12$   $17 - 4 = 13$   
 2 8, 8, 8, 7  
 18, 18, 18, 17  
 6, 9, 6, 6  
 16, 19, 16, 16  
 3 4, 2, 1, 3  
 14, 12, 11, 13  
 4, 2, 5, 5  
 14, 12, 15, 15  
 4 8, 8, 9  
 18, 15, 3, 18, 12, 7, 19  
 2, 1, 5  
 12, 16, 5, 11, 17, 2, 15  
 5 = < >  
 < > =  
 < = <  
 > > =

**Unit 3.5**

- 1 Check that colouring matches calculations:  
 $9 + 3 = 12$   $8 + 6 = 14$   
 $7 + 5 = 12$   $6 + 6 = 12$
- 2 15  
14
- 3 1, 2, 12    2, 3, 13    4, 5, 15  
2, 2, 12    1, 8, 18    3, 6, 16
- 4 13 13  
10 10  
13 13  
14 14  
10 1, 10  
14 4, 14
- 5 For example;  $7 + 8 = 15$   
 $6 + 9 = 15$

**Unit 3.6**

- 1 9, 15    5, 13  
6, 15    5, 8, 13  
4, 7, 11    3, 10, 13  
7, 4, 11    10, 3, 13  
 $7 + 4 = 11$   $3 + 9 = 12$
- 2 13, 13, 12  
17, 11, 11
- 3 11, 11, 12, 13  
12, 12, 13, 11  
13, 13, 14, 12  
14, 14, 15, 11  
15, 15, 16, 16  
16, 11, 17, 17  
12, 18, 11, 13
- 4  $> < =$   
 $> > =$   
 $> > <$   
 $= =$
- 5 10 15 14 12  
12 17 12 16

**Unit 3.7**

- 1 Check pupils' crossing out.  
8 8  
7 7
- 2 7  
5
- 3 2, 1, 9    1, 5, 5    3, 2, 8  
6, 2, 8    7, 2, 8    4, 2, 8
- 4 9 3  
10 10  
9 3  
8 2  
10 10  
8 8, 2
- 5 6    9  
10, 9    8, 9  
4, 11, 5    3, 15, 2

**Unit 3.8**

- 1  $13 - 5 = 8$   $15 - 7 = 8$   
 $14 - 8 = 6$   $17 - 9 = 8$   
 $13 - 4 = 9$   $12 - 3 = 9$   
 $16 - 9 = 7$   $20 - 9 = 11$
- 2 6, 9, 8  
8, 3, 8
- 3 9, 3, 7, 5  
9, 8, 8, 7  
9, 6, 8, 7  
9, 7, 4, 5
- 4  $< < = >$   
 $> > > >$
- 5  $8 - 1 = 7$   $12 - 5 = 7$   $16 - 9 = 7$   
 $9 - 2 = 7$   $13 - 6 = 7$   $17 - 10 = 7$   
 $10 - 3 = 7$   $14 - 7 = 7$   $18 - 11 = 7$   
 $11 - 4 = 7$   $15 - 8 = 7$   $19 - 12 = 7$

**Unit 3.9**

- 1  $7 + 5 = 12$      $11 - 3 = 8$   
 $13 - 4 = 9$      $4 + 8 = 12$   
 $3 + 9 = 12$      $9 + 4 = 13$   
 $20 - 8 = 12$      $12 - 5 = 7$
- 2 12 12 7 8  
15 8 9 8  
13 7 5 20
- 3 Greater than 10:    Less than 10:  
 $5 + 7$      $15 - 6$   
 $7 + 13$      $13 - 8$   
 $9 + 2$      $18 - 14$   
 $16 - 5$   
 $8 + 4$
- 4 7 12 9  
13 15 17  
13 8 5
- 5 Answers will vary. For example:  
 $3 + 9 = 4 + 8 = 5 + 7$

**Unit 3.10**

- 1  $16 - 7 = 9$   $12 - 9 = 3$   
 $6 + 5 = 11$   $9 + 7 = 16$   
 $14 - 6 = 8$   $7 + 5 = 12$
- 2 (a)  $6 + 7 = 13$   
 (b)  $6 + 6 = 12$   
 (c)  $12 - 3 = 9$   
 (d)  $14 - 8 = 6$
- 3 (a)  $12 - 8 = 4$   
 (b)  $9 + 6 = 15$
- 4 Answers will vary. Check that they make sense.

**Unit 3.11**

- 1 15, 6  
 $9 + 7 = 16$ ,  $16 - 9 = 7$   
 $8 + 5 = 13$ ,  $13 - 8 = 5$
- 2  $5 + 8 = 13$   $9 + 7 = 16$   
 $13 - 5 = 8$   $16 - 9 = 7$
- 3 18, 2, 19, +9, -5, 19  
 +1, -1, +8, -8, 12, -5, 12
- 4 18 10, 14 9  
 16 10 9, 18  
 11 8 9  
 4, 7, 8, 16 9, 4, 13
- 5 (a) How many were left on the train?  
 $18 - 4 = 14$   
 $14 + 4 = 18$
- (b) How many (books) did she have altogether?  
 $15 + 4 = 19$   
 $19 - 4 = 15$
- (c) How many (cars) were left?  
 $14 - 8 = 6$   
 $6 + 8 = 14$
- (d) How many (strawberries) did she have left?  
 $13 - 8 = 5$   
 $5 + 8 = 13$

**Unit 3.12**

- 1 6    9    16  
 3, 3    4, 5    7, 9  
 2, 1, 2    2, 2, 3    5, 2, 7  
 16    20    12  
 10, 6    12, 8    6, 6  
 8, 2, 4    7, 5, 3    6, 0, 6  
 18    18    19  
 8, 10    9, 9    9, 10  
 4, 4, 6    0, 9, 0    4, 5, 5
- 2 19    20  
 9, 10    11, 9  
 4, 5, 5    6, 5, 4  
 3, 1, 4, 1    2, 4, 1, 3  
 20    20  
 8, 12    9, 11  
 3, 5, 7    4, 5, 6  
 1, 2, 3, 4    3, 1, 4, 2  
 For example: 17    19  
                     7, 10    2, 17  
                     3, 4, 6    1, 1, 16  
                     1, 2, 2, 4    1, 0, 1, 15
- 3 Check pupil's own number walls.

**Chapter 3 test**

- 1 (a) 5, 10, 11, 13, 15, 17  
(b) 8, 12, 14  
13, 9, 7  
(c) 10, 9  
7, 15, 7
- 2 (a) 12, 17, 10, 8  
9, 18, 20, 10  
(b) 15            18  
8, 7            9, 9  
4, 4, 3        7, 2, 7  
(c) Lines should join:  
15 – 7 and 8  
17 – 9 and 8  
6 + 4 and 10  
8 + 8 and 16  
13 – 5 and 8  
14 – 4 and 10  
10 + 6 and 16
- 3  $7 + 6 = 13$   $4 + 8 = 12$   
 $13 - 6 = 7$   $12 - 4 = 8$   
 $16 - 7 = 9$   $2 + 11 = 13$
- 4 8, 9