

Answers Busy at Maths 2

PAGE 1

- (a) 19
(b) 17
- (a) 6
(b) 6
- (a) 6
(b) 8, 7

PAGE 2

- (a) $8 + 7 = 15$
(b) $6 + 8 + 4 = 18$
- (a) 6
(b) 6
4. Teacher needs to check.
- (a) 8
(b) 7
(c) 5
(d) 4
(e) Teacher needs to check, as several answers are possible.

PAGE 3

- $9 - 1 = 8$
- (a) 17
(b) 14
(c) Ali, 3, Tami
(d) Tami, 3, Ali
- Teacher needs to check.
- (a) Cube
(b) Cylinder
- (a) 32, 23, 19
(b) 85, 64, 46
(c) 92, 61, 29
(d) 97, 79, 56

PAGE 4

- Teacher needs to check.
- (a) 5
(b) 12
- (a) 32
(b) 78
(c) 36
(d) 84
- Teacher needs to check.
- 40c

PAGE 5

- (a) 16c
(b) 32c
(c) 48c
- (a) 13c
(b) 18c

(c) 10c

- (a) 23
(b) 37
(c) 13
(d) 69
(e) 78
(f) 33
- (a) 4
(b) 9
(c) 11
- (a) 4
(b) 8
(c) 10
(d) 11

PAGE 6

- 18
- 40
- 60
- 59
6. Teacher needs to check.
- 28c
- 7c
- 57
- Teacher needs to check.
- 12
- 67, 70, 72
- 7
- 9c
- Shoe
- 67
- 23
- Teacher needs to check.
- 53
- 48

PAGE 7

- (a) 12
(b) 19
(c) 26
(d) 42
(e) 56
(f) 85
3. Teacher needs to check.
- (a) 9
(b) 6, 13
(c) 9, 8, 17

PAGE 8

- (b) 3, 2
(c) 4, 1
(d) 2, 3

- (e) 0
(f) 0
- (b) 8
(c) 5, 5
(d) 7, 3
(e) 8, 2
(f) 4, 6
(g) 6, 4
(h) 9, 1

PAGE 9

- (a) 8
(b) 13
(c) 15
(d) 11
(e) 36
(f) 43
(g) 79
(h) 65
(i) 80
- (a) 8
(b) 15
(c) 20
(d) 24
(e) 28
(f) 49
(g) 65
(h) 75
(i) 87
- (a) 11
(b) 20
(c) 39
(d) 24
(e) 37
(f) 63
(g) 79
(h) 96
(i) 49
- (a) (d)
(e) (g) (h)
(i) (k) (l)

PAGE 10

- (a) 7, 57
(b) 4, 3, 7; 20, 50; 57
(c) 2, 7, 9; 40, 20, 60; 69
(d) 6, 1, 7; 30, 40, 70; 77
- (a) 49
(b) 89
(c) 87
(d) 99
(e) 97
(f) 93
(g) 58
(h) 98
(i) 88

Challenge: 58

PAGE 11

- (a) 18

- (b) 29
(c) 48
(d) 59
(e) 79
(f) 88
- (a) 38
(b) 68
(c) 96
(d) 19
(e) 49
(f) 79

- 23, 5, 28

Challenge: Teacher needs to check.

PAGE 12

- (a) 38
(b) 69
(c) 79
(d) 86
(e) 99
(f) 89
- (a) 59
(b) 66
(c) 97
(d) 84
(e) 78
(f) 87
- (a) 64
(b) 90
(c) 92

- 36, 22, 58

Challenge: 12

PAGE 13

- (a) 38
(b) 65
(c) 68
(d) 94
(e) 92
(f) 86

- (a) 20
30
60
26
46
76
58
(b) 40
60
90
45
55
65
78

- (c) 60
70
90
84
94
57
77

- 23
33
43
- 29
49
69 –
89

Challenge: 82

PAGE 14

- 41
42
43
44
45
46
47
48
49
- (a) 20
(b) 37, 40
(c) 56, 60
(d) 64, 60
(e) 75, 80
(f) 83, 80

PAGE 15

- (a) 20
(b) 40
(c) 60
(d) 80
(e) 90
(f) 50
(g) 30
(h) 70
 - (a) 40; 70
(b) 30, 40; 70
- Challenge: 20, 30, 20; 70

PAGE 16

- (a) 7
(b) 6
(c) 6
 - (a) 18, 8
(b) 10
(c) 10
 - (a) 5
(b) 5
 - (a) 9
(b) 9
- Challenge: (a) 8
(b) 8

PAGE 17

- 6
- 4
- (a) 7
(b) 4
(c) 9
(d) 3
(e) 9

- (f) 7
- (a) 4, 7, 5, 3
(b) 9, 6, 12, 4
(c) 9, 6, 8, 5
 - 3
- Challenge: 5, 9

PAGE 18

- 13
 - 13
 - 7
 - 8
 - (a) 12, 9, 13, 7
(b) 5, 7, 4, 9
(c) 9, 6, 12, 0
 - (a) 13
(b) 15
(c) 11
(d) 9
(e) 4
(f) 5
- Challenge: 8

PAGE 19

- (a) 8, 9, 6, 8, 5, 11, 9, 7, 16, 4
(b) 12, 9, 7, 9, 6, 9, 6, 7, 10, 7
- (a) 7, 6, 7, 6
(b) 4, 11, 4, 11
(c) 17, 17, 8, 9
- (a) 5
1, 7
3
12
(b) 3, 7
2
15
(c) 6
2, 8
4, 4
15

PAGE 20

- $8 + 7 = 15$
- $10 - 4 = 6$
- $14c - 8c = 6c$
- $9 + 6 = 15$
- $14 - 8 = 6$
- $15 - 7 = 8$
- $17 - 9 = 8$
- $19c - 11c = 8c$

PAGE 21

- $16c - 12c = 4c$
- $22 + 7 = 29$
- $29 - 6 = 23$
- $25c + 9c = 34c$

5. $36 + 9 = 45$
 6. $38 - 6 = 32$
 7. $29 - 7 = 22$
 8. $24 + 12 = 36$

PAGE 22

1. $8 + 6 = 14$
 2. $9 + 5 = 14$
 3. $9 - 7 = 2$
 4. $11 - 8 = 3$
 5. $16 + 4 = 20$
 6. $13 - 9 = 4$
 7. $16 - 8 = 8$
 8. $9 + 7 = 16$

PAGE 23

9. $14 - 6 = 8$
 10. $12 - 5 = 7$
 11. $13 + 9 = 22$
 12. $13 - 8 = 5$
 13. $5 + 4 + 14 = 23$
 14. $11 + 6 + 8 = 25$
 15. $16 - 11 = 5$
 16. $9 - 5 = 4$

PAGE 24

1. 40
 2. 3
 3. 59
 4. 40
 5. 69
 6. Teacher needs to check.
 7. 47c
 8. 69
 9. 38, 79, 83
 10. 7
 11. 19
 12. 7
 13. 71
 14. 30
 15. Teacher needs to check.
 16. 15
 17. 5
 18. 11c
 19. 80, 65, 56, 49
 20. 15
 2
 3
 6

PAGE 25

1. (a) $71 > 17$
 (b) $36 > 16$
 (c) $42 > 24$
 (d) $50 > 26$
 2. (a) $7 > 3$
 (b) $9 > 4$
 (c) $6 > 5$
 (d) $19 > 18$
 (e) $46 > 38$
 (f) $70 > 63$

PAGE 26

1. (a) $32 < 46$
 (b) $15 < 25$
 (c) $18 < 58$
 (d) $9 < 22$
 2. (a) $3 < 5$
 (b) $4 < 8$
 (c) $2 < 9$
 (d) $22 < 26$
 (e) $68 < 98$
 (f) $51 < 53$

PAGE 27

1. (a) $2 < 6$
 (b) $5 > 4$
 (c) $10 > 6$
 (d) $7 = 7$
 (e) $4 < 8$
 (f) $9 = 9$
 2. (a) $9 > 4$
 (b) $1 < 8$
 (c) $13 < 20$
 (d) $28 < 29$
 (e) $35 > 30$
 (f) $52 > 25$
 (g) $90 > 30$
 (h) $89 < 98$
 (i) $76 > 67$
 3. (a) $>$
 (b) $=$
 (c) $<$
 (d) $<$
 (e) $<$
 (f) $>$
 (g) $<$
 (h) $=$

Challenge: $17 > 9$

PAGE 28

1. $15 < 22$
 2. $45 > 42$
 3. $18 = 18$
 4. $7 > 6$
 5. $8 = 8$
 6. $22 = 22$
 7. $22 < 26$
 $26 > 22$
 Challenge: $19 < 22$
 $22 > 19$

PAGE 29

1. (a) 10
 (b) 14
 (c) 18
 (d) 20
 (e) 12
 (f) 8
 (g) 16
 (h) 40
 2. (a) 10
 (b) 16
 (c) 21
 (d) 24
 (e) 18
 (f) 25
 3. (a) 5
 (b) $5 + 5 + 1$ or $6 + 6 - 1 = 11$
 (c) $4 + 4 + 1$ or $5 + 5 - 1 = 9$
 (d) $7 + 7 + 1$ or $8 + 8 - 1 = 15$

PAGE 30

1. (a) 14
 (b) 17
 (c) 19
 2. (a) 11
 (b) $+ 4 \rightarrow$
 $10 + 4 = 14$
 (c) $+ 1 + 6 \rightarrow$
 $10 + 6 = 16$
 (d) $9 + 1 + 7 \rightarrow$
 $10 + 7 = 17$
 3. (a) $+ 1 = 11$
 (b) $+ 3 \rightarrow$
 $10 + 1 = 11$
 (c) $+ 2 + 4 \rightarrow$
 $10 + 4 = 14$
 (d) $7 + 3 + 2 \rightarrow$
 $10 + 2 = 12$

PAGE 31

1. (a) $7 + 5 = 12$
 $12 - 7 = 5$
 (b) $6 + 8 = 14$
 $14 - 6 = 8$
 $14 - 8 = 6$
 (c) $11 + 8 = 19$
 $8 + 11 = 19$
 $19 - 8 = 11$
 $19 - 11 = 8$
 (d) $20 + 30 = 50$
 $30 + 20 = 50$
 $50 - 30 = 20$
 $50 - 20 = 30$
 2. (a) 20
 (b) 12
 (c) 8
 (d) $20 - 8 = 12$
 3. (a) 19
 (b) $8 + 11$

- (c) 11
 (d) $11 = 8$
 4. (a) 80
 (b) 30, 80
 (c) 50
 (d) 50, 30

PAGE 32

1. (a) 11
 (b) 15
 (c) 15
 (d) 19
 (e) 19
 (f) 19
 2. (a) 19
 (b) 18
 (c) 20
 (d) 14
 (e) 12
 (f) 20
 3. (a) 18
 (b) 15
 (c) 19
 (d) 19
 (e) 13
 (f) 18
 4. (a) 16
 (b) 16
 (c) 18
 (d) 17
 (e) 15
 (f) 20

Challenge 1: $6 + 6 + 3 = 15$

Challenge 2: $7 + 3 + 5 = 15$

PAGE 33

1. (a) red
 (b) yellow
 (c) yellow
 (d) red
 2. (a) 24, 26, 28, 30
 (b) 25, 27, 29, 31
 3. 4, 10, 18, 20, 28, 36
 Challenge: 5, 13, 17, 21

PAGE 34

1. (a) Odd
 (b) Even
 (c) Odd
 (d) Odd
 (e) Even
 (f) Odd
 2. (a) 6, even
 (b) $5 + 3 = 8$, even
 (c) $6 + 5 = 11$, odd
 (d) $4 + 4 = 8$, even

- (e) $3 + 6 = 9$, odd
 (f) $3 + 5 = 8$, even

3. (a) Even
 (b) Even
 (c) Odd
 (d) Odd

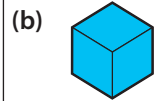
Challenge: 28

PAGE 35

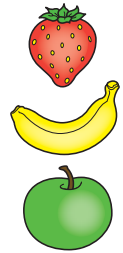
1. 10c 20c 50c
 (a) 20c
 (b) 10c
 (c) 5c
 2. Moo, baa, baa
 Moo, moo, baa
 3, 4. Teacher needs to check.

Challenge: S

PAGE 36



(e)



PAGE 37

1. 45
 2. 27
 3. 46
 4. 47
 5. 62
 6. 69
 7. 65
 8. 9
 9. 2
 10. 13
 11. 18
 12. 35
 13. 36
 14. 75
 15. 44
 16. 55
 17. 66
 18. 24
 19. 76
 20. 53
 21. 56
 22. 58

PAGE 38

1. (a) 26, 34, 46
 (b) 35, 37, 45, 47, 55, 56, 57
 2. (a) 1, 2, 3, 11, 13, 21, 22, 23
 (b) 64, 65, 66, 74, 76, 84, 85, 86
 (c) 52, 53, 54, 62, 64, 72, 73, 74
 (d) 76, 77, 78, 86, 88, 96, 97, 98
 3. (a) 61, 63, 72, 82

- (b) 2
13, 14, 15
23
- (c) 67, 69, 70
77, 78
87, 89, 90
4. (a) 55, 56
65, 66, 67,
68
75
- (b) 33, 34, 35,
36
43
55, 56
- (c) 76, 79, 80
87, 90
97, 98, 99

PAGE 39

1. (a) ✓
(b) ✓
(c) ✓
(d) ✗
(e) ✓
(f) ✗
(g) ✓
(h) ✓
2. Teacher needs to check.

PAGE 40

1. Teacher needs to check.
2. Teacher needs to check.
3. Teacher needs to check.

PAGE 41

1. (a) 25
(b) 57
(c) 73
(d) 67
2. (a) 42
(b) 75
(c), (d) Teacher needs to check.
3. Teacher needs to check.

PAGE 42

1. (a) 48
(b) 76, 67
(c) 95, 59
(d) 63, 36
(e) 82, 28
(f) 96, 69
(g) 71, 17
(h) 86, 68

2. (a) 49, 94
(b) 67, 76
(c) 39, 93
(d) 48, 84
(e) 15, 51
(f) 7, 70
(g) 57, 75
(h) 3, 30

Challenge: 96, 3

PAGE 43

1. 6
2. Milk
3. Smoothie
4. Apple juice and orange juice
5. 3
6. 7
7. 12
8. 28

PAGE 44

1. 6
2. 14
3. P.E.
4. Art
5. English
6. 1
7. 5
8. 11
9. P.E.
10. 28

PAGE 45

- (a) 4
(b) 8
(c) 7
(d) 5
(e) 9
(f) 24

PAGE 46

1. (a) 9
(b) 7
(c) 7
(d) 3
(e) 4
(f) 30

PAGE 47

2. Teacher needs to check.
3. (a) Walk
(b) Bus
(c) 4
(d) 2
(e) 7
(f) 2

- (g) 30
(h) Car

PAGE 48

1. <
2. 7
3. 8
4. 9
5. 45
6. 56
7. 38c
8. Orange
9. 18, 19
10. 53
11. 8
12. 1
13. <
14. 45
15. 74
16. Triangle
17. 97
18. 45, 51
19. 71, 72
20. 15c

PAGE 49

1. (a) 26
(b) 3, 3, 33
(c) 5, 7, 57
(d) 8, 8, 88
(e) 9, 2, 92
(f) 1, 4, 14
2. (a) 35
(b) 6, 8, 68
(c) 4, 3, 43
(d) 9, 6, 96
(e) 4, 1, 41
(f) 9, 0, 90
3. (a) 38
(b) 46
(c) 52
(d) 74
(e) 93

PAGE 50

1. (a) 32
(b) 45
(c) 53
(d) 63
(e) 77
(f) 84
2. (a) 33
(b) 42
(c) 64
(d) 71
(e) 80
(f) 94
3. (a) ✓ 34

- (b) ✗ 28
(c) ✗ 86
(d) ✓ 70
(e) ✗ 48
(f) ✓ 85

PAGE 51

1. (a) 14, 60, 74
(b) 13, 50, 63
(c) 13, 60, 73
(d) 15, 60, 75
2. (a) 43
(b) 52
(c) 81
(d) 91
(e) 72
(f) 73
(g) 73
(h) 80
(i) 64
- Challenge: 52

PAGE 52

1. (a) 92
(b) 95
(c) 55
(d) 62
(e) 82
(f) 63
2. (a) 72
(b) 64
(c) 63
(d) 92
(e) 94
(f) 83
(g) 74
(h) 58
(i) 74

PAGE 53

1. (a) 33
(b) 60
(c) 64
(d) 92
(e) 81
(f) 60
2. (a) 80
(b) 95
(c) 79
(d) 86
(e) 82
(f) 68
3. (a) 73
(b) 96
(c) 92
(d) 82
(e) 90
(f) 87
- Challenge: 26 + 26 = 52

PAGE 54

1. (a) 42
(b) 59
(c) 67

- (d) 75
(e) 53
(f) 85

2. (a) 75
(b) 93
(c) 80
(d) 97
(e) 53
(f) 91

3. 61
4. 38
5. 66
6. 95
7. 83
- Challenge: 53

PAGE 55

1. (a) 19c
(b) 25c
Piggy bank
b; 6c
(c) 27c
(d) 26c
Piggy bank
c; 1c
(e) 36c
(f) 40c
Piggy bank
f; 4c
(g) 44c
(h) 37c
Piggy bank
g; 7c
2. 42c, 31c
Alan, 11c, Ann
Ann, 11c, Alan
3. 7c, 9c, 6c, 6c,
8c, 24c, 33c,
11c, 19c, 25c
- Challenge: 22c

PAGE 56

1. (a) 47c
(b) 60c
(c) 76c
(d) 95c
2. (a) 20c, 20c,
2c, 2c
(b) 50c, 10c,
5c, 2c
(c) 50c, 20c,
10c, 5c
(d) 50c, 20c,
20c, 1c
3. (a) 20c, 20c, 5c,
2c, 1c
(b) 50c, 10c, 5c,
2c, 2c
(c) 50c, 10c,
10c, 2c, 1c
or 50c, 20c,

- 1c, 1c, 1c
(d) 50c, 20c,
20c, 5c, 2c

4. 95c
5. 10c
- Challenge: 15c

PAGE 57

1. (a) 13c; 10c,
2c, 1c
(b) 18c; 10c,
5c, 2c, 1c
(c) 26c; 20c,
5c, 1c
(d) 28c; 20c,
5c, 2c, 1c

2. 9c

3. (a) 32c; 18c;
10c, 5c,
2c, 1c
(b) 37c; 13c;
10c, 2c, 1c
(c) 33c; 17c;
10c, 5c, 2c
(d) 41c; 9c; 5c,
2c, 2c
- Challenge: 42c

PAGE 58

1. (a) 51c
(b) 66c
(c) 47c
2. (a) 64c
(b) 52c
(c) 65c
3. (a) 60c
(b) 62c
(c) 61c
4. (a) 54c
(b) 70c
(c) 52c

PAGE 59

5. (a) 36c
(b) 70c
(c) 66c
6. (a) 78c
(b) 80c
(c) 83c
7. (a) 97c
(b) 61c
(c) 100c

Challenge: 22c; 2c, 20c

PAGE 60

1. 2
2. 5
3. 10
4. 100c or €1
5. €1

6. 20c
 7. 10c
 8. 5c
 9. 5c
 10. (a) 50c, 20c, 10c, 5c
 (b) 50c, 20c, 20c, 5c, 1c
 (c) €1
Challenge: 10c

- PAGE 61**
 1. (a) 91c
 (b) 97c
 (c) 100c
 (d) 90c
 (e) 67c
 (f) 100c
 2. (a) 50c, 20c, 5c, 2c
or
 50c, 10c, 10c, 5c, 2c
 (b) 50c, 20c, 10c, 2c, 2c
or
 50c, 10c, 10c, 10c, 1c, 2c
 3. 90c
 4. 5c
Challenge: 25c; 20c, 5c

- PAGE 62**
 1. (a) 45c; 20c, 20c, 5c
 (b) 31c; 20c, 10c, 1c
 (c) 23c; 20c, 2c, 1c
 (d) 72c; 50c, 20c, 2c
 (e) 67c; 50c, 10c, 5c, 2c
 2. 25c; 20c, 5c
 3. 42c; 20c, 20c, 2c
 4. 24c; 20c, 2c, 2c
 5. 16c; 10c, 5c, 1c
Challenge: 37c

- PAGE 63**
 1. 4, 4, 4, 4
 2. 4, 4, 2, 2, 4
 3. 3, 3, 3
 4. 1, 0, 0
 5. 2, 1, 1, 0, circle
 6. 1, curved, 0

PAGE 64

1. Semicircle
 Triangle
 Square
 Circle
 Rectangle
 Oval
 2. Teacher needs to check, as many answers are possible.
 3. (a) Triangles
 (b) Rectangles
 (c) Squares
 (d) Triangles

- PAGE 65**
 1. 1 square
 5 rectangles
 1 triangle
 2 circles
 3 semicircles
 1 oval
 2. Teacher needs to check, as many answers are possible.
 3. (a) 3
 (b) Move the top coin/counter to below the centre of the bottom row. Move the left- and right-hand coins/counters from the bottom row up two rows.

- (c) Move the two straws from the left-hand edge so that they fill the two blank spaces at the top of the shape. This could be done with the two straws from the right-hand edge either.

- PAGE 66**
 1. 8
 2. 9

3. 75
 4. 7
 5. 5
 6. 65
 7. 88
 8. 76
 9. 97
 10. Six tens
 11. 48c
 12. 8
 13. 69
 14. 2c
 15. 5c
 16. Teacher needs to check.
 17. 70c
 18. 25c
 19. 30
 20. 10

- PAGE 67**
 1. 98
 2. 58
 3. (a) 88
 (b) 97
 (c) 79
 (d) 75
 (e) 59
 (f) 89
Challenge: 69

- PAGE 68**
 1. 41
 2. 52
 3. 52
Challenge: Teacher needs to check, as many answers are possible.

- PAGE 69**
 1. 99
 2. 100
 3. 100
 4. (a) 103
 (b) 108
 (c) 118
 (d) 126

- PAGE 70**
 1. 112
 2. 124
 3. 135
 4. 153
 5. 126

- PAGE 71**
 1. 146
 2. 164
 3. 175
 4. 140
 5. 109
 6. 178
 7. 163
 8. 179

6. 148
 7. 160
 8. 109
PAGE 71
 1. 146
 2. 164
 3. 175
 4. 140
 5. 109
 6. 178
 7. 163
 8. 179

- PAGE 72**
 1. 124
 2. 147
 3. 158
 4. 135
 5. 162
 6. 170
 7. 109

- PAGE 73**
 Teacher needs to check.
PAGE 74
 1. (a) Morning
 (b) Noon
 (c) Afternoon
 (d) Evening
 (e) Night
 (f) Midnight
 2. (a) Morning
 (b) Afternoon
 (c) Midnight
 (d) Noon
 (e) Evening
 (f) Night
 (g) Evening
 (h) Morning
 (i) Afternoon
 3. (a) Morning
 (b) Afternoon
 (c) Evening
 (d) Night

- PAGE 75**
 1. (a) 7
 (b) Monday
 (c) Sunday
 (d) Saturday, Sunday
 (e) Thursday
 (f) Wednesday
 (g) Teacher needs to check, as there is no

- definite answer.
 2. (a) 28
 (b) 31
 (c) Monday
 (d) Tuesday
 (e) 3, February
 (f) 4, 5, 5
 (g) Friday
Challenge: 24
PAGE 76
 1. 5
 2. 4
 3. Monday
 4. 3
 5. 25th
 6. Rock climbing
 7. 16th
 8. 1
 9. 11th
 10. 30th
Challenge: Football
PAGE 77
 1. (a) January
 (b) December
 2. 4
 (a) Spring
 (b) Summer
 (c) Autumn
 (d) Winter
 3. (a) Spring
 (b) Summer
 (c) Winter
 (d) 3
 4. (a) Winter
 (b) 12
 (c) Season
 5. (a) July
 (b) September
 (c) October
Challenge: (a) June
 (b) Summer
PAGE 78
 1. (a) July
 (b) February
 2. (a) Friday
 (b) Monday
 (c) November
 3. (a) 24th
 (b) 24, August, autumn
 4. (a) 24
 (b) 26
 5. (a) 16, July, summer

- (b) 16, March, spring
Challenge: 29th April
PAGE 79
 1. (a) Parts
 (b) Half
 (c) Whole
 (d) Equal
 2. (a) Vertically
 (b) Horizontally
 3, 4. Teacher needs to check.

- PAGE 80**
 1. (a) 1, 1, 1
 (b) 2, 2, 2
 (c) 3, 3, 3
 (d) 4, 4, 4
 (e) 5, 5, 5
 (f) 6, 6, 6
 (g) 7, 7, 7
 (h) 8, 8, 8
 (i) 9, 9, 9
 (j) 10, 10, 10
 2. (a) 7
 (b) 8
 (c) 2
 (d) 4
 (e) 9
 (f) 5

- PAGE 81**
 1. (a) Parts
 (b) Quarter
 (c) Whole
 (d) Equal
 2. (a) ✓
 (b) ✗
 (c) ✓
 (d) ✓
 3. (a) ✓
 (b) ✓
 (c) ✗
 (d) ✗
 (e) ✓
 (f) ✗
 (g) ✓
 (h) ✗

- PAGE 82**
 1. Teacher needs to check.
 2. (a)–(d) Teacher needs to check.
 (e) $2/4 = 1/2$
 3. (a) A horizontal line and a vertical line
 (b) Four vertical lines

- (c) (i) 8
(ii) 2
(iii) 4
(iv) 6

PAGE 83

1. (a) 4, 1
(b) 8, 2
(c) 12, 3
(d) 16, 4
(e) 20, 5
2. (a) 2
(b) 5
(c) 4

PAGE 84

1. (a) $\frac{1}{4}$
(b) $\frac{3}{4}$
(c) $\frac{1}{2}$
(d) $\frac{1}{4}$
2. (a) $\frac{3}{4}$
(b) $\frac{1}{2}$
3. (a) Greater than
(b) Equal to
(c) Less than
(d) Equal to

PAGE 85

1. (a) $\frac{1}{2}$ of 12 = 6
 $\frac{1}{4}$ of 20 = 5
 $\frac{1}{2}$ of 8 = 4
 $\frac{1}{2}$ of 16 = 8
 $\frac{1}{4}$ of 4 = 1
2. (b) $\frac{1}{4}$ of 8 = 2
 $\frac{1}{2}$ of 2 = 1
 $\frac{1}{4}$ of 12 = 3
 $\frac{1}{2}$ of 10 = 5
 $\frac{1}{4}$ of 16 = 4
3. (a) 8
(b) 4
(c) 2
(d) 2
(e) $\frac{1}{4}$

4. 16c, 4c
Challenge: 20c

PAGE 86

1. 9
2. 8
3. 107
4. Teacher needs to check.
5. 5
6. 98
7. 127
8. 14c
9. 120
10.8
11.100
12.22c

- 13.12
14.4
15. April
16.8
17. $\frac{1}{4}$
18.5
19.60c
20.30

PAGE 87

1. (a) 153
(b) 126
(c) 147
(d) 170
(e) 169
(f) 192
(g) 105
(h) 180
2. Teacher needs to check.

PAGE 88

1. (a) 168
(b) 137
(c) 102
(d) 170
(e) 156
(f) 106
(g) 192
(h) 185
2. Teacher needs to check.

PAGE 89

Teacher needs to check.

PAGE 90

1. (a) 142
(b) 161
(c) 158
(d) 192
(e) 168
(f) 187
2. (a) 115
(b) 109
(c) 36
(d) 72
(e) 156
(f) 87
3. (a) 103, 113, 131
(b) 95, 125, 152
(c) 147, 167, 174
4. (a) 165, 153, 97
(b) 197, 109, 99
(c) 170, 163, 115

PAGE 91

1. (a) 134
(b) 160
(c) 89
(d) 101

- (e) 145
(f) 139
2. Teacher needs to check.
3. (a) 185
(b) 104
(c) 139

PAGE 92

Teacher needs to check, as answers will vary.

PAGE 93

1. (a), (b) Teacher needs to check, as answers will vary.
2. (a) About 1m
(b) < 1m
(c) > 1m
(d) < 1m
(e) < 1m
(f) About 1m
(g) < 1m
(h) > 1m

PAGE 94

1. (a) True
(b) False
(c) True
(d) False
(e) False
(f) True

2. Teacher needs to check, as answers will vary.

3. Teacher needs to check, as answers will vary.

PAGE 95

1. (a) 4cm
(b) 11cm
(c) 8cm
2. Teacher needs to check, as answers will vary.

Challenge: 8cm

PAGE 96

1. Height
(a) 3cm
(b) 2cm
(c) 4cm
(d) 3cm
- Length
(a) 6cm
(b) 8cm

- (c) 4cm
(d) 10cm
2. (a) Sophia
(b) Seán
(c) 16cm

Challenge:

(a) 2cm (b) 12cm

PAGE 97

1. Pencil = 6cm
TV = 45cm
Door = 2m
Bus = 9m
2. Teacher needs to check.
3. 41cm
4. (a) Stride
(b) Fingertip
(c) Span
(d) Span
5. 22cm

PAGE 98

1. (a) 3, 4, 5, 12
(b) 6, 2, 4, 12
(c) 2, 2, 8, 12
2. 9cm
3. 79cm
4. 90cm
5. 23cm

Challenge: 85cm

PAGE 99

1. 47
2. 33
3. 25
4. Thirty-four
5. Fifty-eight
6. Ninety-two
7. 76
8. Sixty-five
9. 59
10. Sixty-three
11. 180
12. 86
13. 146
14. Seventy-seven
15. One hundred and twenty
16. 97
17. 155
18. Thirty-six
19. One hundred and one

- 20.74
- PAGE 100**

1. (a) 4 units
(b) 70
(c) 140
(d) 110
(e) 136
(f) 186
(g) 11
(h) 90 + 99
(i) 1 hundred + 8tens
2. (a) 146
(b) 181
(c) 195
(d) 111
(e) 144
(f) 133
(g) 160
(h) 188
(i) 170
(j) 101
(k) 19
(l) 91
3. (a) Tens
(b) Units
(c) Tens
(d) Hundreds
(e) Tens
(f) Units
(g) Tens

PAGE 101

1. 125
2. 171
3. 163
4. 53
5. 109
6. 150

PAGE 102

- Across
1. Twenty
6. Fifty-eight
7. Twelve
8. Eighty
9. Seven
- Down
1. Ten
2. Ninety
3. Seventeen
4. Sixty-two
5. Hundred

PAGE 103

1. 97
2. 76
3. 171

4. 156
5. =
6. 4cm
7. 6cm
8. 155
9. 163
10.4
11.52cm
12.191
13.18
14.143
15.10
16.€1.30
17.53
18.€1.80
19.3
20.15c

PAGE 104

1. (a) True
(b) True
(c) False
(d) False
(e) False
(f) True
(g) Unsure
2. (a) Lulu and Binny
(b) Lulu
(c) Binny
(d) Fluffy
3. (a) 10 cubes
(b) 9 cubes

PAGE 105

Teacher needs to check.

PAGE 106

1. (a) ✓
(b) ✗
(c) ✗
(d) ✓
(e) ✓
(f) ✗
2. (a) <
(b) >
(c) <
(d) <
(e) <
(f) <
(g) <
(h) >

Challenge:
(a) 12 (b) 24

PAGE 107

1. (a) 2
(b) 4



- (c) 2
(d) $\frac{1}{2}$
(e) $\frac{1}{4}$
2. Teacher needs to check.
- Challenge:**
- (a) 80c
(b) 20c
(c) 10c
(d) 100c

PAGE 108

1. (a) 46, 4t 6u
(b) 65, 6t 5u
(c) 78, 7t 8u
(d) 37, 3t 7u
(e) 59, 5t 9u
(f) 84, 8t 4u
2. 32
3. 43
4. (a) 24
(b) 32

Challenge: 32

PAGE 109

1. (a) 25
(b) 24
(c) 53
(d) 42
(e) 73
(f) 44
2. (a) 35
(b) 34
(c) 26
(d) 41
(e) 32
(f) 45
3. (a) 12
(b) 34
(c) 43
(d) 50
(e) 4
(f) 31
4. (a) 21
(b) 33
(c) 46
(d) 74
(e) 40
(f) 22

Challenge: 42

PAGE 110

1. (a) 45
(b) 4
(c) 53
(d) 40
2. (a) 13
(b) 24
(c) 43
(d) 54
(e) 63

- (f) 64
3. 22
- Challenge:**
 $38 - 23 = 15$

PAGE 111

1. 6
12
8, stack, slide
2. 6, flat
12, straight
8, stack, slide
3. 3, 2, 1
2, curved
0, stack, roll, slide
4. 1, curved
0
0, roll
5. 2, 1, 1
1, curved
0, roll, slide

PAGE 112

1. Teacher needs to check.
2. (a) Cylinder
(b) Cone
(c) Sphere
(d) Cube
(e) Cuboid
(f) Cone
3. Teacher needs to check.

PAGE 113

1. (a) Cuboid
(b) Cylinder
(c) Sphere
(d) Cone
(e) Cube
(f) Cylinder
2. (a) Cube
(b) Teacher needs to check.

PAGE 114

1. (a) 8
(b) 3
(c) 11
(d) 6
(e) 2
(f) 7
(g) 11
(h) 6
2. Teacher needs to check.
3. (a) 2
(b) 4
(c) 1
(d) 3

PAGE 115

1. 60m or 1h
2. 30m or $\frac{1}{2}$ h
3. 60m or 1h
4. 30m or $\frac{1}{2}$ h
5. 30
6. 5
7. (a) 2
(b) 3
(c) 6
8. 30
9. LISA
- Challenge:** 4

PAGE 116

1. (a) 5
(b) 11
(c) 2
(d) 9
(e) $\frac{1}{4}$ past 1
(f) $\frac{1}{4}$ past 10
(g) $\frac{1}{4}$ past 7
(h) $\frac{1}{4}$ past 12
2. Teacher needs to check.
3. (a) 4 o'clock
(b) $\frac{1}{2}$ past 4
(c) $\frac{1}{4}$ past 4
(d) $\frac{1}{4}$ past 5

PAGE 117

1. (a) 1
(b) 8
(c) 4
(d) 12
(e) $\frac{1}{4}$ to 6
(f) $\frac{1}{4}$ to 9
(g) $\frac{1}{4}$ to 3
(h) $\frac{1}{4}$ to 10
2. Teacher needs to check.
- Challenge:**
- (a) $\frac{1}{4}$ to 4
(b) $\frac{1}{4}$ past 5
(c) $\frac{1}{4}$ to 6
(d) $\frac{1}{4}$ to 9

PAGE 118

1. (a) 9:00
(b) 11:00
(c) 2:30
(d) 12:30
2. (a) Teacher needs to check; 3:00
(b) Teacher needs to check; 10:00

- (c) Teacher needs to check; 7:00
- (d) Teacher needs to check; 4:30
- (e) Teacher needs to check; 11:30
- (f) Teacher needs to check; 6:30
3. KEVIN
- Challenge:** 60

PAGE 119

1. (a) 11 o'clock; 1 o'clock
(b) $\frac{1}{4}$ past 2; $\frac{1}{4}$ past 4
2. 3:30; 5:30
- Challenge:** 12.30

PAGE 120

- (a) $\frac{1}{4}$ to 4; $\frac{1}{4}$ to 5
(b) $\frac{1}{4}$ to 12; $\frac{1}{4}$ to 1
(c) $\frac{1}{4}$ past 8; $\frac{1}{4}$ past 9
- Challenge:** 5:30

PAGE 121

1. $\frac{1}{4}$ past 1
2. Teacher needs to check.
3. Teacher needs to check.
4. Cuboid
5. 23
6. 59
7. 42
8. 3
9. 9:30
- 10.14
- 11.24
- 12.19c
- 13.80
- 14.>
- 15.6
15, 17
26
- 16.28
- 17.45c

18. Teacher needs to check.
19. $\frac{1}{4}$ to 5
- 20.25c

PAGE 122

1. Teacher needs to check.
2. (a) $\frac{1}{4}$, cold
(b) half, $\frac{1}{4}$, hot
(c) full, $\frac{1}{2}$, $\frac{1}{4}$, off
3. (a) Half
(b) Full
(c) Quarter

PAGE 123

1. Teacher needs to check.
2. Teacher needs to check.
3. (a) 4 right angles
(b) No right angles
(c) One right angle

PAGE 124

1. 14, 16, 18, 20, 22, 24, 26
2. (a) 34, 36
(b) 35, 37
(c) 38, 40, 42
(d) 47, 59, 51
3. 16
- Challenge:** 18

PAGE 125

1. 8, 12, 16, 20, 24, 28
(a) 28
(b) 24
(c) 20
2. 12, 16, 20, 24, 28, 32c
3. Teacher needs to check.
4. (a) 36
(b) 16
(c) 12, 24, 28, 40
- Challenge:** 36

PAGE 126

1. 25, 30, 35, 40, 45, 50, 55
2. (a) 20, 25, 30
(b) 35, 40, 45
(c) 50, 55, 60
(d) 60, 70, 75

3. (a) 5, 10, 20, 25; 25
(b) 5, 10, 15, 20, 25, 30, 35, 40; 40
(c) 65
- Challenge:** 40

PAGE 127

1. 30, 40, 50, 60, 70, 80
2. (a) 40, 50, 60
(b) 80, 90, 100
(c) 75, 85, 95
(d) 79, 89, 99
3. 50
4. 80m
- Challenge:** 80

PAGE 128

1. 6, 9, 12, 15, 18, 21
(a) 21
(b) 12
(c) 18
2. 6, 9, 12, 15, 18, 21, 24, 27
(a) 27
(b) 15
(c) 24
3. Teacher needs to check.
4. Teacher needs to check.

PAGE 129

1. 12, 18, 24, 30, 36, 42
(a) 42
(b) 24
(c) 36
2. 30
(a) 30
(b) 42
3. (a) 60
(b) 24
(c) 42
(d) 54
(e) 12, 24, 30, 36, 42, 48
- Challenge:** 6

PAGE 130

1. (a) €1.29
(b) €1.58
(c) €1.80
(d) €1.17
(e) €1.09
(f) €1.03
(g) €1.99
(h) €0.89
(i) €0.30
(j) €0.90

- (k) €0.07
(l) €0.02
2. (a) 136c
(b) 153c
(c) 180c
(d) 101c
(e) 119c
(f) 120c
(g) 32c
(h) 40c
(i) 110c
(j) 3c
(k) 70c
(l) 8c
3. (a) (i) 140c
(ii) €1.40
(b) (i) 135c
(ii) €1.35
(c) (i) 82c
(ii) €0.82

PAGE 131

1. (b) 10c, 5c, 2c, 1c
(c) €1, 50c, 10c, 2c
(d) €1, 50c, 20c, 5c, 2c
2. (b) 5c, €0.05
(c) 25c €0.25
(d) 22c, €0.22
3. 95c, 15c, 70c, 4c, 105c, €0.95, €0.15, €0.70, €0.04, €1.05

Challenge:
170c, €1.70

PAGE 132

1. (a) 50c
(b) 50c
(c) 10c
(d) 20c
(e) 20c
(f) 10c
2. (a) 30c, €0.30
(b) 40c, €0.40
(c) 6c, €0.06
(d) 110c, €1.10
3. 25c, €0.25
4. 4

Challenge:
(a) 20 (b) 10

PAGE 133

1. (a) 140c, €1.40
(b) 170c, €1.70
(c) 190c, €1.90
(d) 160c, €1.60
(e) 180c, €1.80

- (f) 175c, €1.75
2. (a) €1.72
(b) €1.80
(c) €1.57
(d) €1.75
3. €1.10, €1.25, €1.05, €0.05, €0.15, €0.07
4. 40c

Challenge: 7

PAGE 134

1. (b) 50c
(c) 20c, 5c
(d) 20c, 2c
2. (a) 45c; 20c
(b) 13c; 2c, 1c, 10c
(c) 72c; 2c, 20c, 50c
(d) 27c; 2c, 5c, 20c
3. 105c, €1.05
4. 40c, €0.40
5. 10

Challenge: 120c

PAGE 135

1. (a) 170c, €1.70
(b) 115c, €1.15
(c) 150c, €1.50
(d) 110, €1.10
(e) 185c, €1.85
(f) 170c, €1.70
2. (a) €0.95, €1.05
(b) €0.80, €1.20
(c) €1.20, €0.80

Challenge: 3

PAGE 136

1. (a) 2, 16
(b) 4, 19
(c) 7, 13
(d) 8, 17
2. (b) 4, 17
(c) 6, 16
(d) 8, 15

PAGE 137

1. (a) 48
(b) 35
(c) 58
(d) 67
(e) 88
(f) 76

2. (a) 25
(b) 48
(c) 79
(d) 86
(e) 67
(f) 57

Challenge:
1. 37 2. 58

PAGE 138

1. (a) 27
(b) 37
(c) 14
(d) 19
(e) 38
2. (a) 47
(b) 58
(c) 64
(d) 69
(e) 78
3. (a) 86
(b) 76
(c) 89
(d) 83
(e) 78
4. 29
5. 51
6. 56
7. 26

PAGE 139

1. 1kg
2. 77
3. 55
4. 1 right angle
5. 18
6. 24
7. €0.07
8. €0.15
9. €1.35
10. 4t 17u
11. 16
12. 43
13. 10c
14. 26c
15. 3
16. 3t 8u
17. 3
18. 54
19. 10:30
20. 7th

PAGE 140

1. (a) 2
(b) 6
(c) 4
(d) 10
(e) 12
(f) 8
2. (a) 3
(b) 6
(c) 9

- (d) 15
(e) 21
(f) 18
3. (a) 8
(b) 20
(c) 16
(d) 28
(e) 24
(f) 40
4. (a) 15c
(b) 25c
(c) 40c
5. (a) 12
(b) 24
(c) 30
(d) 36
(e) 54
(f) 60
6. (a) 10
(b) 50
(c) 70
(d) 100
(e) 90
(f) 80

PAGE 141

1. (a) 16, 18, 20, 22, 24, 26, 28
(b) Teacher needs to check.
(c) 30
2. (a) 28, 24, 16, 12, 8, 4, 0
(b) Subtract 4
3. (a) 46, 52, 54, 56, 60, 62
(b) 64, 60, 52, 48
4. (a) 16, 26, 36, 46
(b) + 4
19, 29, 35, 45
(c) - 4
23, 33, 53, 67

Challenge: 10

PAGE 142

1. (a) 30, 45, 50, 55, 65, 70
(b) Add 5
(c) 75
2. (a) 80, 70, 40, 30, 20
(b) Subtract 10
3. (a) 80, 70, 60, 40
(b) Subtract 5
30, 20, 15
(c) Add 5
21, 31, 36, 46, 61

Challenge:

1. 50 2. 50

PAGE 143

1. (a) 54, 45, 42, 39, 30
(b) Subtract 3
(c) 27
2. + 5, + 10
(a) 30
(b) 12
(c) 14, 24
3. (a) + 6
14
34
38
48
64
(b) - 3
59
42
32
19
12
(c) - 6
75
61
51
41
25

Challenge: 15

PAGE 144

1. (a) Spoon/ yoghurt
Carton/ glass/ shampoo bottle
(b) Bucket/ jug
(c) Bucket/jug/ shampoo bottle
(d) Spoon
2. Teacher needs to check.
3. Teacher needs to check.

Challenge: Teacher needs to check.

PAGE 145

1. (a) ✓
(b) ✗
2. Teacher needs to check.
3. (a) About
(b) About
(c) <
(d) >
(e) <
(f) <

PAGE 146

1. (a) 3
(b) 2
(c) 1
2. Teacher needs to check.
3. (a) Soup
(b) 4
(c) 2
(d) 2
(e) 10

PAGE 147

1. (a) 4
(b) 10
(c) 6
(d) Bowl
(e) Ladle
2. Teacher needs to check.
3. 70c
- Challenge:**
(a) 60c (b) 100c, €1

PAGE 148

1. (a) First
(b) 2nd
(c) 2nd
(d) 1st
2. Teacher needs to check.
3. Teacher needs to check.

PAGE 149

1. (a) 12
(b) 8
(c) 6
(d) 9
(e) 4
(f) 5
(g) 44
2. (a) 15
(b) 29
(c) 36
(d) 25
(e) 39

PAGE 150

1. (a) 36
(b) 14
2. 30
3. (a) 52
(b) Teacher needs to check.
(c) 48
(d) 48
(e) 96

PAGE 151

1. (a) 6

- (b) 25
(c) 60
(d) 39
2. (a) 21
(b) 12
(c) 8
(d) 4
(e) Kennel
(f) Lawn

PAGE 152

1. (a) 17
(b) 36
(c) 28
(d) 27
(e) 26
2. (a) 14
(b) 18
(c) 37
(d) 38
(e) 34
3. (a) 17
(b) 25
(c) 25
(d) 24
(e) 48

PAGE 153

1. (a) 14
(b) 18
(c) 14
(d) 36
(e) 57
(f) 45
(g) 27
(h) 46
(i) 23
(j) 35
(k) 45
(l) 43
2. 24
3. 28
- Challenge:**
1. 45 2. 37

PAGE 154

1. (a) 16
(b) 38
(c) 21
(d) 46
(e) 45
(f) 63
(g) 35
(h) 22
(i) 7
(j) 33
(k) 44
(l) 53

2. (a) 28
(b) 27
(c) 35
(d) 19
(e) 34
(f) 28

3. (a) 24
(b) 18
(c) 26
(d) 29

Challenge: 27

PAGE 155

1. (a) 25, 45, 75
(b) 16, 27, 69
(c) 7, 39, 56
(d) 9, 24, 16
(e) 68, 87, 71
2. (a) 25
(b) 52
(c) 18
(d) 110
(e) 149
(f) 39
(g) 26
(h) 81
(i) 23
(j) 132
(k) 128
(l) 38

3. (a) 14
(b) 25
(c) 63

Challenge:
1.16 2. 38

PAGE 156

1. 12.30
2. 60
3. 18c
4. 5
5. 18th August
6. 69
7. (c)
8. 42
9. 7
10. €1.00
11. €1.80
12. 90
13. 135
14. 27
15. €1.90

16. 9 groups of 6

17. €0.30

18. 30c

19. 40

20. 28

PAGE 157

1. 8, 8
2. 4, 4
3. (a) 5
(b) 5
(c) 7
(d) 13
(e) 14
(f) 11
(g) 15
(h) 5

4. 4

5. 5

Challenge: 6

PAGE 158

1. $(8+7) - 11 = 4$
2. $(12+8) - 14 = 6$
3. $(8+9) - 12 = 5$
4. $(15+10) - 17 = 8c$
5. $(20-8) - 5 = 7$
6. $(24-10) - 5 = 9$
7. (a) 4
(b) 8
(c) 10
(d) 24
(e) 7
(f) 13

PAGE 159

1. (a) 32
(b) 13
(c) 24
(d) 20
(e) 24
(f) 14

2. 23

3. 12

Challenge: 12

PAGE 160

1. 21
2. 76
3. 23
4. 12
5. 34
6. 22
7. 51
8. 52

PAGE 161

- (a) 19
(b) 16
(c) 19

Challenge 1: 15 2: 29

PAGE 162

1. (a) 29
(b) 34
(c) 17
2. (a) 71
(b) 35
(c) 60

Challenge: 17

PAGE 163

1-6. Teacher needs to check.

7. The door

8-13. Teacher needs to check.

PAGE 164

1. 1 2 4

2. 67

3. 34

4. 4:30

5. 5:30

6. €1.25

7. 28c

8. 16

9. 12

10. 10

11. 15

12. $\frac{1}{4}$ to 6 or 5:45

13. 60

14. 90

15. July

16. 9th

17. The triangle

18. 60c

19. Rachel

20. 19