Answers
Pupil Book 3A Answers

Unit 1, Week 1: Number - Number and place value

Lesson 1: Adding 2-digit numbers

| 1 | a 15 | b 24 | c 29 | d 12 |
| 1 | e 25 | f 18 | g 36 | h 43 |

Lesson 2: Subtracting 2-digit numbers

| 2 | a 41 | b 57 | c 54 | b 39 | c 47 | d 79 | e 22 |
| 1 | a 264 | b 398 | c 403 | d 653 | e 575 | f 163 |

Lesson 3: 3-digit numbers

| 1 | a 125 | b 116 | c 132 |
| 2 | a 263 | b 327 | c 451 |

Lesson 4: Ordering numbers to 1000

| 1 | a 21, 39, 54, 87 | b 12, 25, 66, 93 | c 14, 17, 41, 74 | d 95, 100, 101, 105, 107 |

Lesson 2: Partitioning 2-digit numbers

These answers drawn as Base 10:

| 1 | a 10 + 4 = 14 | b 10 + 9 = 19 | c 20 + 8 = 28 | d 30 + 5 = 35 | e 20 + 3 = 23 |
| 2 | a 603, 634, 701, 751, 792 | b 638, 701, 739, 811, 822 | c 219, 293, 903, 912, 921 | d 578, 875, 919, 987, 998 |
| 3 | a 679, 697, 769, 796, 967, 976, 467, 476, 647, 674, 746, 467, 497, 749, 794, 947, 974, 469, 496, 649, 694, 946, 964 | b 467, 469, 476, 479, 496, 497, 647, 649, 674, 679, 694, 697, 746, 749, 764, 769, 794, 964, 947, 964, 976, 974, 976 |

Lesson 3: Subtracting 2-digit numbers

| 1 | a 12 | b 21 | c 16 | d 27 |

Lesson 4: Adding 2-digit numbers

| 1 | a 23 + 10 + 10 + 1 = 44 | b 27 + 10 + 10 + 2 = 49 | c 34 + 10 + 10 + 5 = 59 | d 37 + 10 + 10 + 10 + 1 = 68 |

Lesson 3: Partitioning 3-digit numbers

| 1 | a 57 | b 68 | c 71 |
| 2 | a 58 | b 76 | c 68 | d 64 |

Lesson 3: Subtracting 3-digit numbers

| 1 | a 125 | b 116 | c 132 |
| 2 | a 263 | b 327 | c 451 |

Lesson 1: Naming 3-D shapes

| 1 | cube | cone |
| 2 | cone | sphere |
| 3 | sphere | cylinder |
| 4 | cuboid | 5-cylinder |
| 5 | cuboid | 10-cube |

Lesson 2: Cubes, cubes, hexagonal prism, cylinder, cone and triangular prism

| 1 | a cuboid | b triangular prism | c cone |
Lesson 2: Making models of 3-D shapes

Answers will vary.

Lesson 3: Classifying and describing 3-D shapes

Lesson 3: Classifying and describing 3-D shapes

3-D shapes

<table>
<thead>
<tr>
<th>3-D shape</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prism</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
</tr>
<tr>
<td>Not a prism</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lesson 4: Building models with cubes

<table>
<thead>
<tr>
<th>Prism end face</th>
<th>Number of sides of end face</th>
<th>Total number of edges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triangle</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>Square</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>Pentagon</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Hexagon</td>
<td>6</td>
<td>18</td>
</tr>
</tbody>
</table>

1 Number of edges of a prism = number of vertices + number of sides of end face

Number of vertices of a prism = number of edges – number of sides of end face

Lesson 4: Building models with cubes

Answers will vary.

Unit 2, Week 1: Number - Multiplication and division, incl. Number and place value

Lesson 1: Counting in 2s, 3s, 5s and 10s

2 a 10th model has \((2 \times 10) + 1\) cubes = 21 cubes

Patterns go up in 2s because 2 more cubes are added each time.

Challenge

2 a 1, 2, 3, 4, 5, 6

b 1, 2, 3, 4, 5

c 1, 2, 3, 4, 5

3-D shapes

<table>
<thead>
<tr>
<th>3-D model</th>
<th>Number of square faces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Blue</td>
</tr>
<tr>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>C</td>
<td>5</td>
</tr>
<tr>
<td>D</td>
<td>5</td>
</tr>
</tbody>
</table>

Lesson 3: 3 multiplication table

<table>
<thead>
<tr>
<th>3-D model</th>
<th>Number of square faces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
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</tr>
<tr>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shape</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cubes</td>
<td>3</td>
<td>5</td>
<td>7</td>
<td>9</td>
<td>11</td>
<td>13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lesson 2: 2s, 5s and 10s

Challenge

2 a 1 a 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100

b 1 \((2 \times 10) + 1\) cubes = 21 cubes

Pattern goes up in 2s because 2 more cubes are added each time.

Challenge

Answers will vary.

Lesson 4: Solving word problems (1)

Lesson 3: 3 multiplication table

<table>
<thead>
<tr>
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<td>4</td>
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<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cubes</td>
<td>3</td>
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<td>7</td>
<td>9</td>
<td>11</td>
<td>13</td>
</tr>
</tbody>
</table>

Pattern goes up in 2s because 2 more cubes are added each time.

10th model has \((2 \times 10) + 1\) cubes = 21 cubes

Answers will vary.

Unit 2, Week 2: Number - Fractions

Lesson 1: Finding fractions

<table>
<thead>
<tr>
<th>3-D model</th>
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</tr>
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<tbody>
<tr>
<td>Red</td>
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</tr>
<tr>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shape</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<tbody>
<tr>
<td>Number of cubes</td>
<td>3</td>
<td>5</td>
<td>7</td>
<td>9</td>
<td>11</td>
<td>13</td>
</tr>
</tbody>
</table>

Pattern goes up in 2s because 2 more cubes are added each time.

10th model has \((2 \times 10) + 1\) cubes = 21 cubes

Answers will vary.
Lesson 3: Solving fraction problems (2)

1 a \( \frac{1}{2} \) of 12 = 6 children
b \( \frac{1}{2} \) of 40 = 20 bananas
c \( \frac{1}{2} \) of 20 = 10 socks
d \( \frac{1}{2} \) of 16 = 8 bottles
e \( \frac{1}{2} \) of 24 = 12 lemons
f \( \frac{1}{2} \) of 4 = 2 cups
2 Answers will vary.

2 a \( \frac{1}{3} \) of 12 = 4 leaves
b \( \frac{1}{3} \) of 6 = 2 plums
c \( \frac{1}{3} \) of 15 = 5 birds
d \( \frac{1}{3} \) of 9 = 3 books
e \( \frac{1}{3} \) of 18 = 6 children
f \( \frac{1}{3} \) of 24 = 8 cups
g \( \frac{1}{3} \) of 27 = 9 sweets
h \( \frac{1}{3} \) of 21 = 7 teddies
2 Answers will vary.

Lesson 4: Adding fractions

1 a \( \frac{2}{3} + \frac{1}{3} = \frac{3}{3} = 1 \)
b \( \frac{2}{4} + \frac{1}{4} = \frac{3}{4} \)
c \( \frac{1}{5} + \frac{2}{5} = \frac{3}{5} \)
d \( \frac{1}{6} + \frac{3}{6} = \frac{4}{6} = \frac{2}{3} \)
e \( \frac{2}{8} + \frac{1}{8} = \frac{3}{8} \)
f \( \frac{3}{10} + \frac{1}{10} = \frac{4}{10} = \frac{2}{5} \)
g \( \frac{5}{12} + \frac{1}{12} = \frac{6}{12} = \frac{1}{2} \)
h \( \frac{7}{14} + \frac{2}{14} = \frac{9}{14} \)
2 Answers will vary.

2 a \( \frac{2}{3} + \frac{1}{3} = \frac{3}{3} = 1 \)
b \( \frac{2}{4} + \frac{1}{4} = \frac{3}{4} \)
c \( \frac{1}{5} + \frac{2}{5} = \frac{3}{5} \)
d \( \frac{1}{6} + \frac{3}{6} = \frac{4}{6} = \frac{2}{3} \)
e \( \frac{2}{8} + \frac{1}{8} = \frac{3}{8} \)
f \( \frac{3}{10} + \frac{1}{10} = \frac{4}{10} = \frac{2}{5} \)
g \( \frac{5}{12} + \frac{1}{12} = \frac{6}{12} = \frac{1}{2} \)
h \( \frac{7}{14} + \frac{2}{14} = \frac{9}{14} \)
2 Answers will vary.

3 a \( \frac{1}{3} + \frac{1}{3} = \frac{2}{3} \)
b \( \frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2} \)
c \( \frac{1}{5} + \frac{1}{5} = \frac{2}{5} \)
d \( \frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3} \)
e \( \frac{1}{8} + \frac{1}{8} = \frac{2}{8} = \frac{1}{4} \)
f \( \frac{1}{10} + \frac{1}{10} = \frac{2}{10} = \frac{1}{5} \)
g \( \frac{1}{12} + \frac{1}{12} = \frac{2}{12} = \frac{1}{6} \)
h \( \frac{1}{14} + \frac{1}{14} = \frac{2}{14} = \frac{1}{7} \)
3 Answers will vary.

Lesson 3: Solving fraction problems (2)

1 a \( \frac{1}{2} \) of 12 = 3 children
b \( \frac{1}{2} \) of 40 = 10 bananas
c \( \frac{1}{2} \) of 20 = 10 socks
d \( \frac{1}{2} \) of 16 = 8 bottles
e \( \frac{1}{2} \) of 24 = 12 lemons
f \( \frac{1}{2} \) of 4 = 2 cups
2 Answers will vary.

2 a \( \frac{1}{3} \) of 12 = 4 leaves
b \( \frac{1}{3} \) of 6 = 2 plums
c \( \frac{1}{3} \) of 15 = 5 birds
d \( \frac{1}{3} \) of 9 = 3 books
e \( \frac{1}{3} \) of 18 = 6 children
f \( \frac{1}{3} \) of 24 = 8 cups
g \( \frac{1}{3} \) of 27 = 9 sweets
h \( \frac{1}{3} \) of 21 = 7 teddies
2 Answers will vary.

Lesson 4: Adding fractions

1 a \( \frac{2}{3} + \frac{1}{3} = \frac{3}{3} = 1 \)
b \( \frac{2}{4} + \frac{1}{4} = \frac{3}{4} \)
c \( \frac{1}{5} + \frac{2}{5} = \frac{3}{5} \)
d \( \frac{1}{6} + \frac{3}{6} = \frac{4}{6} = \frac{2}{3} \)
e \( \frac{2}{8} + \frac{1}{8} = \frac{3}{8} \)
f \( \frac{3}{10} + \frac{1}{10} = \frac{4}{10} = \frac{2}{5} \)
g \( \frac{5}{12} + \frac{1}{12} = \frac{6}{12} = \frac{1}{2} \)
h \( \frac{7}{14} + \frac{2}{14} = \frac{9}{14} \)
2 Answers will vary.

3 a \( \frac{1}{3} + \frac{1}{3} = \frac{2}{3} \)
b \( \frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2} \)
c \( \frac{1}{5} + \frac{1}{5} = \frac{2}{5} \)
d \( \frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3} \)
e \( \frac{1}{8} + \frac{1}{8} = \frac{2}{8} = \frac{1}{4} \)
f \( \frac{1}{10} + \frac{1}{10} = \frac{2}{10} = \frac{1}{5} \)
g \( \frac{1}{12} + \frac{1}{12} = \frac{2}{12} = \frac{1}{6} \)
h \( \frac{1}{14} + \frac{1}{14} = \frac{2}{14} = \frac{1}{7} \)
3 Answers will vary.
Lesson 1: Subtracting 1s

1. a 30
   b 60
   c 30
   d 60
   e 60
2. Answers will vary.

Lesson 2: Subtracting 10s

1. a 224
   b 176
   c 253
   d 252
   e 343
2. Answers will vary.

Lesson 3: Adding 100s

1. a 343
   b 575
   c 681
   d 649
   e 764
   f 300
   g 200
   h 800
   i 300
   j 400
2. Answers will vary.

Lesson 4: Solving word problems (2)

1. a 101 people
   b 88 ml
   c 326 p
   d 345 people
   e 56 chocolates
   f 433 copies
   g 71 chocolates
   h 79 cards
2. Answers will vary.

Unit 3, Week 2: Number - Addition and subtraction

Lesson 1: Subtracting 1s

1. a 124
   b 134
   c 126
   d 231
   e 278
   f 342
2. Answers will vary.

Lesson 2: Subtraction

1. a 118
   b 132
   c 134
   d 50
   e 60
   f 60
   g 60
   h 50
   i 50
2. Answers will vary.

Lesson 3: Adding 100s

1. a 224
   b 176
   c 253
   d 252
   e 343
   f 300
   g 200
   h 800
   i 300
   j 400
2. Answers will vary.

Lesson 4: Solving word problems (3)

1. a 33 bananas
   b 59 apples
   c 942 children
   d 52 g
   e 545 children
   f 592 g
   g £76
   h 7 children
   i 400 points
2. Answers will vary.

Unit 3, Week 3: Geometry - Properties of shape

Lesson 1: Finding the right angles

1. a 1
   b 2
   c 3
   d 4
   e 5
   f 6
   g 7
   h 8
   i 9
2. Answers will vary.

Lesson 2: Turning patterns

1. a 1
   b 2
   c 3
   d 4
   e 5
   f 6
   g 7
   h 8
   i 9
2. Answers will vary.

Lesson 3: Giving and following directions

1. a church
   b duck pond
   c shop
   d garage
2. Answers will vary.
Lesson 1: Counting in 4s

1. a 4 × 6 = 24
da 16 ÷ 4 = 4
d 32 ÷ 4 = 8
d 120 ÷ 4 = 30

2. b 20 = 80
c 10 × 2 = 20

c 28 ÷ 4 = 7
c 90 ÷ 4 = 22.5

d 40 ÷ 4 = 10
d 100 ÷ 4 = 25

Lesson 2: 4 multiplication table

1. a 5
b 3
c 9
d 28
e 5
f 8
g 5

2. a 20 ÷ 4 = 5
d 24 ÷ 4 = 6
e 30 ÷ 4 = 7.5
e 120 ÷ 4 = 30

Lesson 4: All sorts of angles

1. Greater than a right angle
2. Less than a right angle

Unit 4, Week 4: Number - Multiplication and division, incl. Number and place value

Lesson 1: Counting in 8s

1. a 8 × 6 = 48
d 16 ÷ 8 = 2
d 40 ÷ 8 = 5

d 320 ÷ 8 = 40

2. b 20 ÷ 4 = 5
e 24 ÷ 4 = 6
e 30 ÷ 4 = 7.5
e 100 ÷ 4 = 25

Lesson 2: 8 multiplication table

1. a 5
b 3
c 9
d 28
e 5
f 8
g 5

2. a 20 ÷ 4 = 5
d 24 ÷ 4 = 6
e 30 ÷ 4 = 7.5
e 100 ÷ 4 = 25

Lesson 3: Doubling to find the 4 multiplication table

1. a 8
d 16

e 120
d 240

e 120

2. a 40
c 120

d 60
d 240

d 60

Lesson 4: Multiplication and division

1. a 5
c 9
d 28
e 5
f 8
g 5

2. a 20 ÷ 4 = 5
c 36 ÷ 4 = 9
e 120 ÷ 4 = 30

Lesson 2: 8 multiplication table

1. a 2
c 8
e 16
f 32
g 64

2. a 16
c 32
e 64
f 128
g 256
Lesson 1: Doubling to find the 8 multiplication table

1 a 3 b 2 c 5 d 6 e 4 f 8 g 7 h 88 i 8

1 I am 24
2 We are 24 and 32

Lesson 4: Solving word problems (4)

a 20 f 48
b 4 g 3
c 4 h 5
d 8 i 9
e 8

1 £16
2 4 rows of biscuits
3 They buy 3 cakes each
4 56 slices of cake
5 36 cupcakes altogether
6 320p or £3.20
7 £12
8 Year 3 spent £28 at the bake sale
9 £88

Answers will vary.

Unit 4, Week 3: Measurement (time)

Lesson 1: Up to the minute

1 a 30 × 4 = 120 b 60 × 4 = 240 c 70 × 4 = 280
d 40 × 8 = 320 e 90 × 8 = 720

2 a 30 × 8 = 240 b 60 × 8 = 480 c 70 × 8 = 560

Lesson 2: Using a time line

2 Open

Lesson 3: Roman numerals and 24-hour times

1 a 16 min past 8, 44 min to 9 b 22 min past 4, 38 min to 5 c 3 min past 11, 57 min to 12

2 a 11:15, 23:15 b 7:42, 19:42 c 3:54, 15:54

1 8:28 a.m.
2 Open

Lesson 4: Timing tasks

1, 2 Open
Lesson 1: 3-digit numbers

1 a 163  c 159
b 171

2 These numbers drawn as Base 10
a 126  e 242
d 119  f 266

1 a 361  c 382
b 206  d 426

2 a 219  d 629
c 455  e 773
d 579  f 808

1 a 583  d 939
b 834  e 874
c 511  f 786

Lesson 2: Ordering numbers to 1000

1 a 168  254  429  517
b 103  266  381  572
c 236  351  423  467
d 109  218  377  541
e 180  276  317  441
f 125  288  371  452
g 124  132  151  169
h 137  142  183  193
i 227  231  258  263
j 207  238  254  286
k 213  243  253  283
l 362  376  384  390

2 Answers will vary.

Lesson 3: Using money to show 3-digit numbers

1 a 34p  f 123p
b 43p  g 133p
c 51p  h 231p
d 25p  i 227p

2 a 233p  d 442p
b 245p  e 550p
c 324p  f 613p

Lesson 4: Get the order

No answers.

Lesson 5: Buying fruit

1 a £63  f £42
b £25  g £34
c £58  h £16
d £8  i £26

Lesson 4: Furniture shopping

1 a £91  c £45
b £146  d £82

Lesson 5: Geometry - Properties of shape

1 A, B, C, E, H, I

Lesson 1: Drawing and naming shapes

1 A circle
2 B hexagon
3 C triangle
4 D pentagon
5 E octagon
6 F semi-circle
7 G square
8 H heptagon

Lesson 2: Matching 2-D shapes

1 A square
2 B pentagon
3 C rectangle
4 D octagon
5 E triangle
6 F hexagon

Lesson 3: Paper shapes

1 Open
Lesson 1: Counting in steps of 2, 4 and 8

- regular pentagon
- right-angled triangle
- square
- regular hexagon

1 Answers will vary but will be named.
A pentagon D hexagon
B trapezium E hexagon
C square

2 a trapezium b D

Yes. 4 small squares and 1 large square

Unit 6, Week 1: Number - Multiplication and division, incl. Number and place value

Lesson 1: Counting in steps of 2, 4 and 8

1 a 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24
b 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48
c 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96

2 a 10
da 24
b 14
e 30
c 16
f 38

3 a We are 24, 32, 40, 48.
b I am 32.
c I am 24.

Lesson 2: Halving to find the division facts for the 4 multiplication table

1 a 12
b 23
c 19
da 32
e 44
f 8

g 18

2 a 16 ÷ 4 = 4
da 14 ÷ 3 = 2
b 12 ÷ 4 = 3
c 20 ÷ 4 = 5
d 24 ÷ 4 = 6

3 a 15
da 14
b 18
c 16
f 23

Lesson 3: Halving to find the division facts for the 8 multiplication table

1 a 4
da 12
b 12
c 6
da 10
e 3

2 a 16 ÷ 4 = 2
da 32 ÷ 4 = 8
b 80 ÷ 8 = 10
da 56 ÷ 8 = 7
c 24 ÷ 4 = 3
da 48 ÷ 8 = 6
d 88 ÷ 8 = 11

3 a 14
da 15
b 16
e 18
c 13
f 21

Lesson 4: Properties of 2-D shapes

- regular hexagon
- right-angled triangle
- square
- regular hexagon

2 a trapezium b D

Yes. 4 small squares and 1 large square

Unit 6, Week 2: Number - Multiplication and division

Lesson 1: Fractions and division

1 a 4
da 3
b 2
d 5
e 6

2 1 4 + 2 = 7
b 18 ÷ 2 = 9
c 24 ÷ 2 = 12
da 28 ÷ 2 = 14
e 34 ÷ 2 = 17
f 36 ÷ 2 = 18
c 40 ÷ 2 = 20
d 48 ÷ 2 = 24
e 54 ÷ 2 = 27

3 a 10
b 14
c 16
d 20

Lesson 3: Ordering fractions

1 a 3
da 1
b 2
d 2
e 3

2 a 1
b 2
c 3
d 3
e 3

3 a 1
b 1
c 1
d 1

Lesson 4: Fractions on number lines
Unit 6, Week 3: Measurement (length)

Lesson 1: Measuring in centimetres

<table>
<thead>
<tr>
<th>Line</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length in cm</td>
<td>4</td>
<td>7</td>
<td>11</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

2, 3 Open

Challenge 1

1 a Yes
2 b 79 cm

Lesson 2: Measuring in millimetres

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 a 15 mm</td>
<td>c 21 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 35 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 a = 85 mm</td>
<td>d = 91 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b = 47 mm</td>
<td>e = 74 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c = 100 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 Open

Challenge 3

1 15 mm

Lesson 3: Measuring and comparing lengths

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 Open

Lesson 4: Adding and subtracting lengths

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Truck R: 6 m 10 cm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Truck T: 8 m 90 cm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 23 m 40 cm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 4 m 20 cm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Unit 7, Week 1: Number - Addition and subtraction

Lesson 1: Expanded addition

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 a 78</td>
<td>e 296</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 78</td>
<td>f 398</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c 87</td>
<td>g 499</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d 279</td>
<td>h 598</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 Answers will vary.

Challenge 2

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 a 702</td>
<td>e 1010</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 689</td>
<td>f 993</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c 699</td>
<td>g 987</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d 758</td>
<td>h 1040</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 Answers will vary.

Lesson 2: Column subtraction (1)

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 a 376</td>
<td>d 289</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 379</td>
<td>e 499</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c 399</td>
<td>f 579</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 a 385</td>
<td>d 597</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 488</td>
<td>e 588</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c 597</td>
<td>f 585</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Answers will vary.

Challenge 3

2 a 696 | e 889 |
3 a 673 | e 791 |
4 a 896 | e 982 |
5 a 891 | e 993 |
6 a 795 | e 995 |
7 a 986 | e 990 |

3 Answers will vary.

Lesson 3: Column subtraction (2)

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 a 299</td>
<td>g 678</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 288</td>
<td>h 769</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c 389</td>
<td>i 778</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d 459</td>
<td>j 886</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e 578</td>
<td>k 887</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f 589</td>
<td>l 998</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 a 591 | e 884 |
3 a 685 | f 892 |
4 a 762 | g 885 |
5 a 867 | h 996 |

Lesson 4: Mental addition

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 a 765</td>
<td>e 955</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 936</td>
<td>f 946</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c 919</td>
<td>g 964</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d 790</td>
<td>h 878</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 a 622 | c 763 |
3 b 721 | d 834 |

Lesson 5: Number - Addition, Incl. Measurement (money)

Lesson 1: Column addition (1)

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 a 589</td>
<td>e 134</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 513</td>
<td>h 132</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c 223</td>
<td>j 122</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d 122</td>
<td>k 134</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e 223</td>
<td>l 134</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 a 232 | e 352 |
3 a 323 | f 225 |
4 a 323 | g 262 |
5 a 336 | h 332 |
6 a 336 | i 262 |
7 a 324 | j 332 |
8 a 324 | k 332 |
9 a 332 | l 332 |
10 a 324 | m 332 |

Challenge 3

2 Answers will vary.

Lesson 2: Column subtraction (2)

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 a 222</td>
<td>g 135</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b 154</td>
<td>h 232</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c 135</td>
<td>i 133</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d 125</td>
<td>j 321</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e 252</td>
<td>k 321</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 a 128 | c 128 |
3 a 128 | d 237 |
4 a 184 | e 144 |
5 a 184 | f 262 |
6 a 184 | g 275 |
7 a 184 | h 331 |
Lesson 3: Mental subtraction

Answers will vary.

Answers will vary.

Answers will vary.

Lesson 4: Sports shop spending

<table>
<thead>
<tr>
<th></th>
<th>a</th>
<th>£32</th>
<th></th>
<th>b</th>
<th>£158</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>c</td>
<td>£136</td>
<td></td>
<td>d</td>
<td>£50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>a</th>
<th>£158</th>
<th></th>
<th>b</th>
<th>£152</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>c</td>
<td>£132</td>
<td></td>
<td>d</td>
<td>£50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>a</th>
<th>£131</th>
<th></th>
<th>b</th>
<th>£99</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>c</td>
<td>£60</td>
<td></td>
<td>d</td>
<td>Answers will vary.</td>
</tr>
</tbody>
</table>

Unit 7, Week 3: Statistics

Lesson 1: Tally charts

<table>
<thead>
<tr>
<th></th>
<th>Vehicle</th>
<th>Number</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>car</td>
<td>⬆️</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>bus</td>
<td>⬆️</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>bicycle</td>
<td>⬆️</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>lorry or van</td>
<td>⬆️</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>motorbike</td>
<td>⬆️</td>
<td>7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Vehicle</th>
<th>Number</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>car</td>
<td>⬆️</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>bus</td>
<td>⬆️</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>bicycle</td>
<td>⬆️</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>lorry or van</td>
<td>⬆️</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>motorbike</td>
<td>⬆️</td>
<td>7</td>
</tr>
</tbody>
</table>

Lesson 2: Picnic bar charts

<table>
<thead>
<tr>
<th></th>
<th>Item</th>
<th>Tally</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>sandwiches</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>biscuits</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>cherries</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>raisins</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Item</th>
<th>Tally</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>sandwich fillings</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>salad</td>
<td>⬆️</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>tuna</td>
<td>⬆️</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>egg</td>
<td>⬆️</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>cheese</td>
<td>⬆️</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>chicken</td>
<td>⬆️</td>
<td>12</td>
</tr>
</tbody>
</table>

Lesson 2: Charity pictograms

<table>
<thead>
<tr>
<th></th>
<th>Coins collected for charity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1p</td>
</tr>
<tr>
<td></td>
<td>2p</td>
</tr>
<tr>
<td></td>
<td>5p</td>
</tr>
<tr>
<td></td>
<td>10p</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Number of coins</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Key ⬆️ stands for 2 coins</td>
</tr>
<tr>
<td></td>
<td>⬆️ stands for 1 coin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Item</th>
<th>Number of items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>sandwiches</td>
<td></td>
</tr>
<tr>
<td></td>
<td>biscuits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>cherries</td>
<td></td>
</tr>
<tr>
<td></td>
<td>raisins</td>
<td></td>
</tr>
</tbody>
</table>

Lesson 3: Picnic bar charts

<table>
<thead>
<tr>
<th></th>
<th>Item</th>
<th>Tally</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>sandwiches</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>biscuits</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>cherries</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>raisins</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Item</th>
<th>Tally</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>sandwich fillings</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>salad</td>
<td>⬆️</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>tuna</td>
<td>⬆️</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>egg</td>
<td>⬆️</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>cheese</td>
<td>⬆️</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>chicken</td>
<td>⬆️</td>
<td>12</td>
</tr>
</tbody>
</table>
Lesson 4: Pictograms and bar charts

Unit 8, Week 2: Number - Fractions

Lesson 1: Counting in steps of 50 and 100

Number - Multiplication and division, Incl. Number and place value

Lesson 1: Pizza puzzle

Lesson 2: Subtracting fractions

Answers will vary.

Answers will vary.

Answers will vary.

Answers will vary.

Answers will vary.

Answers will vary.

Answers will vary.
Lesson 3: Equivalent fractions

Challenge

3 a $\frac{2}{6} = \frac{1}{3}$

b Answers will vary.

Lesson 4: Fractions wall

1 No answers.

2 No answers.

4 No answers.

5 No answers.

6 No answers.

Lesson 8: Measurement (perimeter)

Unit 3, Week 3: Measurement (perimeter)

Lesson 1: Perimeters of rectangles

1 a 14 cm b 12 cm

1 a 12 cm c 18 cm

b 12 cm

2 A 30 m D 36 m

B 28 m E 26 m

C 32 m

3 a 36 m b 40 m

Lesson 2: Drawing and calculating perimeters

Open

1 a (1 $\times$ 1) cm

b (2 $\times$ 2) cm, (3 $\times$ 1) cm

c (3 $\times$ 3) cm, (4 $\times$ 2) cm, (5 $\times$ 1) cm

d (4 $\times$ 4) cm, (5 $\times$ 3) cm, (6 $\times$ 2) cm,

(7 $\times$ 1) cm

e (5 $\times$ 5) cm, (6 $\times$ 4) cm, (7 $\times$ 3) cm,

(8 $\times$ 2) cm, (9 $\times$ 1) cm

Lesson 3: Regular perimeters

1 a 12 cm c 10 cm

b 12 cm d 8 cm

2 a 10 cm d 12 cm

b 10 cm e 14 cm

c 10 cm f 16 cm

6

8

10

12

14

16

Pupil Book 3C

Unit 9, Week 1: Number - Number and place value

Lesson 1: Raffle tickets

1 a 34 35 36 d 66 67 68

b 47 48 49 e 78 79 80

c 58 59 60 f 89 90 91

2 a 20 21 22 g 61 62 63

b 32 33 34 h 69 70 71

c 44 45 46 i 85 86 87

Lesson 2: Number lines

1

2

Lesson 3: Partitioning 3-digit numbers

1 a 100 + 20 + 8 f 300 + 40 + 1

b 100 + 50 + 2 g 300 + 9

c 100 + 70 + 7 h 400 + 50 + 8

d 200 + 10 + 6 i 400 + 70 + 3

e 200 + 50 + 8 j 500 + 10 + 4

1 These numbers partitioned:

a 356 e 563

b 372 f 592

c 484 g 642

d 447 h 684

2 Answers will vary.
Lesson 4: Fowl problems

1 123 eggs
2 225 eggs
3 499 g
4 172 g

Unit 9, Week 3: Geometry - Properties of shape

Lesson 1: Horizontal and vertical lines

1 V
d H
2 V
b AC or BD
c
d

Lesson 2: Perpendicular and parallel lines

1 a BALAE
b AB/ED
c

Open

2 a Open.
b First shape: 1 pair of // lines, no \ lines
Second shape: pair of // lines, 2 pairs of \ lines
Third shape: 2 pairs of // lines, no \ lines
Fourth shape: 1 pair of // lines, 3 pairs of \ lines

3 a AD and BC
b AB and DC

Lesson 3: Pick and choose shapes

1 D
c A, C, F, G, H, I
d E, I

2 a G, H
d C, H, I
c A, B, D, F
e A, F, I
b A, B, D
f D

Open

Lesson 4: More about 3-D shapes

1 a A, C, D
c A, C, D
d
b B, C

c

a triangular prism
d triangular prism

b cuboid
c cuboid

Number of horizontal cubes
Number of vertical cubes
Total

<table>
<thead>
<tr>
<th>Shape</th>
<th>3 by 3 by 3</th>
<th>4 by 4 by 4</th>
<th>5 by 5 by 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>16</td>
<td>24</td>
<td>32</td>
</tr>
<tr>
<td>Number of cubes</td>
<td>12</td>
<td>16</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>28</td>
<td>40</td>
<td>52</td>
</tr>
</tbody>
</table>

Online game

Lesson 1: Multiplication using partitioning

1 25 = 20 + 5
2 30 = 30 + 4
3 68 = 60 + 8
4 71 = 70 + 1
5 54 = 50 + 4
6 87 = 80 + 7
7 23 = 20 + 3
8 216 birthday cards
9 156 candles
10 144 metres of wrapping paper
11 11 May is the last day for ordering the cake

Lesson 2: Multiplication using partitioning and the grid method

Approximate the answer to each calculation

a 150  e 160
b 200  f 280
c 200  g 640
d 480  h 400

Lesson 3: Multiplication: Introducing the expanded written method

a 80  e 150
b 120  f 320
c 150  g 200
d 480  h 560

135 418
b 180  f 272
c 216  g 664
d 496  h 390

78 \times 2, 53 \times 4, 54 \times 5 are the odd ones out because 3 of the numbers multiply to give an answer of 176 and another three numbers multiply to give an answer of 108, whereas these calculations have an answer which does not match with any other calculations.
Lesson 4: Solving problems

1 a 21  
2 a 24  
3 a 24  
4 a 27  
5 a 35  
6 a 48  
7 a 28  
8 a 18  

Lesson 1: Investigate fractions

Open

Lesson 2: Fraction problems

1 £3  
2 4 hrs  
3 6 minutes  
4 10 grams  
1 £9  
2 40 minutes  
3 2kg  
4 20 minutes  
1 £25  
2 40 mins  
3 \( \frac{3}{2} \)

Lesson 3: Equivalent fraction puzzle

Open

Lesson 4: Tenths

1 a 0, \( \frac{2}{10} \), \( \frac{3}{10} \), \( \frac{4}{10} \), \( \frac{5}{10} \), \( \frac{6}{10} \), \( \frac{7}{10} \)  
2 \( \frac{1}{10} \)  
3 a 3, \( \frac{1}{10} \), \( \frac{2}{10} \), \( \frac{3}{10} \), \( \frac{4}{10} \), \( \frac{5}{10} \), \( \frac{6}{10} \)  
4 \( \frac{2}{10} \)  
5 a 3, \( \frac{3}{10} \), \( \frac{2}{10} \), \( \frac{5}{10} \), \( \frac{4}{10} \), \( \frac{7}{10} \)  
6 \( \frac{2}{10} \)  
7 a \( \frac{1}{10} \), \( \frac{3}{10} \)  
8 a \( \frac{1}{10} \), \( \frac{3}{10} \)  

Lesson 3: Shopping litres

1 a shampoo, cola, juice, sauce, salad dressing,  
b sauce, shampoo, salad dressing, cola, juice.

Lesson 4: Adding and subtracting capacities

Lesson 1: Estimating and checking the formal written method of addition

1 a 397  
b 389  
c 489  
d 489  

2 1 Answers will vary.

3 Answers will vary.
Lesson 2: Addition target answers

1. Jenny: 1 min 13 sec
   Rex: 1 min 11 sec

2. Answers will vary.

Lesson 3: Adding and subtracting money

1 a £83 b £103 c £95 d £113
2 a £43 b £68 c £32 d £133
1 a £425 b £462 c £587 d £567
2 a £146 b £133 c £304 d £273
1 a £553 b £229 c £281 d £958
2 a £70 b £90 c £400

Lesson 4: School shopping

1 a £24 b £156 c £216 d £148 e £127 f £70

Lessons 2: Race times

1 a 6:13 b 8:05 c 1:38
   2 a 3:36 b 8:28 c 9:56
   3 a 1:37 b 12:07

Lesson 3: Jumping forward to the target

1 Answers will vary.

Lesson 4: Cycle race times

1 a 7:45 b 8:20 c 9:13

Lesson 1: Just a minute

1 a 26 min past 8 b 42 min past 11 c 58 min past 4 d 34 min past 3 e 17 min past 5 f 3 min past 7

Lesson 2: Race times

1 a 5 minutes b 15 seconds
   2 a 30 minutes b 9 hours
   3 a 3:20 b 3:32 c 3:17
   4 Pat 3:17 e Ian 3:25
Lesson 1: School disco pictograms

**Unit 12, Week 3: Statistics**

**Lesson 1:** School disco pictograms

<table>
<thead>
<tr>
<th>Colour</th>
<th>Tally</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>red</td>
<td>⌑ ⌒ ⌑ ⌒</td>
<td>16</td>
</tr>
<tr>
<td>orange</td>
<td>⌑ ⌑</td>
<td>10</td>
</tr>
<tr>
<td>green</td>
<td>⌐</td>
<td>5</td>
</tr>
<tr>
<td>yellow</td>
<td>⌑ ⌑ ⌑</td>
<td>12</td>
</tr>
<tr>
<td>blue</td>
<td>⌑</td>
<td>7</td>
</tr>
</tbody>
</table>

**Unit 12, Week 2: Multiplication and division**

**Lesson 2:** Division using the formal written method

| a | 20 |
| b | 10 |
| c | 20 |
| d | 10 |
| e | 10 |
| f | 10 |
| g | 20 |
| h | 30 |
| i | 20 |
| j | 30 |

**Lesson 3:** Multiplication: Introducing the formal written method (1)

a 160
b 200
c 210
d 240
e 240

**Lesson 4:** Solving word problems (7)

1. 24 × 3 = 72
2. 18 × 4 = 72
3. 27 × 3 = 81
4. 14 × 4 = 56
5. 28 × 3 = 84
6. 21 × 4 = 84
7. 17 × 5 = 85
8. 19 × 4 = 76

**Lesson 5:** Solving word problems (8)

1. 66 + 2 and 33
2. 64 + 8 and 8
3. 36 + 3 and 12
4. 84 + 4 and 21
5. 24 + 4 and 6
6. 69 + 3 and 23

**Lesson 6:** Solving word problems (9)

1. 85 ÷ 5 is odd one out as other answers equal 24
2. 95 ÷ 5 is odd one out as other answers have a 7 in the units or ones place

**Unit 12, Week 3: Statistics**

**Lesson 3:** Division using the formal written method

Answers will vary.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>red</td>
<td>⌑ ⌑ ⌑ ⌑</td>
</tr>
<tr>
<td>orange</td>
<td>⌐ ⌐ ⌐</td>
</tr>
<tr>
<td>green</td>
<td>⌘</td>
</tr>
<tr>
<td>yellow</td>
<td>⌑ ⌑</td>
</tr>
<tr>
<td>blue</td>
<td>⌐</td>
</tr>
</tbody>
</table>

**Unit 12, Week 2: Multiplication and division**

**Lesson 1:** Division using partitioning

| a | 30 |
| b | 60 |
| c | 150 |
| d | 120 |
| e | 200 |
| f | 160 |
| g | 200 |
| h | 40 |
| i | 280 |
| j | 280 |

**Lesson 2:** Multiplication: introducing the formal written method (2)

| a | £1.80 |
| b | £5   |
| c | £2.40 |
| d | £1.60 |
| e | £1.40 |

**Lesson 3:** Multiplication: Introducing the formal written method (3)

| a | 148 |
| b | 216 |
| c | 207 |
| d | 272 |
| e | 228 |

**Lesson 4:** Solving word problems (6)

1. £36
2. £76
3. £105
4. £172
5. £1050
6. £5
7. £60
8. £4
9. £48
10. £304

**Unit 12, Week 3: Statistics**

**Lesson 1:** School disco pictograms
Lesson 1: Note / Coin Frequency

<table>
<thead>
<tr>
<th>Note / Coin</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>£10</td>
<td>30</td>
</tr>
<tr>
<td>£5</td>
<td>35</td>
</tr>
<tr>
<td>£2</td>
<td>15</td>
</tr>
<tr>
<td>£1</td>
<td>20</td>
</tr>
<tr>
<td>50p</td>
<td>10</td>
</tr>
</tbody>
</table>

Lesson 2: Coins and notes

<table>
<thead>
<tr>
<th>Note / Coin</th>
<th>Number of notes or coins</th>
</tr>
</thead>
<tbody>
<tr>
<td>£10</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
</tr>
<tr>
<td>£5</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
</tr>
<tr>
<td>£2</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
</tr>
<tr>
<td>£1</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
</tr>
<tr>
<td>50p</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
</tr>
</tbody>
</table>

Key: ● = 5 notes or coins

1 a 65 notes    b 45 coins    c 5 notes    d 5 coins

Lesson 2: Activities bar charts

1 a Football skills    b Games
2 a 10 children    b 5 children
3 100 children

Lesson 3: On the menu pictograms

<table>
<thead>
<tr>
<th>Drink</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>40</td>
</tr>
<tr>
<td>Juice</td>
<td>20</td>
</tr>
<tr>
<td>Milk</td>
<td>30</td>
</tr>
<tr>
<td>Nothing</td>
<td>15</td>
</tr>
</tbody>
</table>

Lesson 4: Off to Italy bar charts

1 a 30 flights    b 5 flights    c 15 flights    d 35 flights
2 a Monday and Thursday
3 a Saturday    b Wednesday
4 Open
5 125

Lesson 2: Counting to 200

1 Numbers 101 to 200 inserted in hundred square.
Lesson 3, Support: Subtracting 10s

1 Answers will vary.
2 Answers will vary.
3 a 6 d 21
   b 14 e 28
   c 17 f 37
4 a 8 d 33
   b 22 e 17
   c 9 f 46

Lesson 3, Extension: What's the calculation?
All answers will vary.

Unit 1, Week 3: Geometry - Properties of shape
Lesson 2, Support: Building 3-D shapes

1 Open
2 triangular prisms green
   square prisms yellow
   rectangular prisms red
   hexagonal prisms blue

Lesson 2, Extension: 3-D spreadsheet

1 a 2 triangles, 3 rectangles
   b 6 squares
   c 2 pentagons, 5 rectangles
   d 4 rectangles, 2 squares
   e 2 hexagons, 6 rectangles
   f 6 rectangles
2 Open

Lesson 3, Support: Describing sweet shapes

Peppermint prisms A, B, D, E, G, H
Fruity five faces E
Raspberry rectangles B, D, E, H
Caramel curves C, F, G, I

Lesson 3, Extension: Properties of pyramids

1

<table>
<thead>
<tr>
<th>Pyramid base</th>
<th>Number of sides of base</th>
<th>Number of faces of pyramid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triangle</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Square</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Pentagon</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Hexagon</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Heptagon</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Octagon</td>
<td>8</td>
<td>9</td>
</tr>
</tbody>
</table>

2 a 10 sides – 11 faces
   b 12 sides – 13 faces

Lesson 4, Extension: 3 in a row

1 20 sets of numbers circled.
2 Answers will vary.

Unit 2, Week 2: Fractions
Lesson 1, Support: Finding thirds

1 a $\frac{1}{3}$ of 10 = 3
   b $\frac{1}{3}$ of 6 = 2
   c $\frac{1}{3}$ of 12 = 4
   d $\frac{1}{3}$ of 8 = 2
   e $\frac{1}{3}$ of 16 = 5
   f $\frac{1}{3}$ of 4 = 1
   g $\frac{1}{3}$ of 14 = 2
   h $\frac{1}{3}$ of 18 = 6
2 Answers will vary.

Lesson 2, Extension: Quarter It
Answers will vary.

Lesson 3, Support: Practical fractions
Answers will vary.

Lesson 4, Extension: How many ways?
Answers will vary.

Unit 2, Week 3: Measurement (mass)
Lesson 2, Support: On the scales

1 Open
2 a 700 g
   b 400 g
   c 500 g
   d 900 g
3 a 1 kg 500 g, 1500 g
   b 2 kg 500 g, 2500 g
   c 3 kg 500 g, 3500 g

Lesson 2, Extension: Reading scales

1 a 200 g, 400 g, 800 g
   b 350 g, 700 g, 1400 g
   c 425 g, 850 b, 1700 g
2 a 600 g
   b 900 g
3 retriever, 25 kg
   spaniel, 10 kg
   terrier, 15 kg

Lesson 4, Support: More or less mass
Game
Lesson 4, Extension: Pick your own strawberries

<table>
<thead>
<tr>
<th></th>
<th>John</th>
<th>Ellen</th>
<th>Hassan</th>
<th>Nina</th>
<th>Kayden</th>
<th>Lexi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight in grams</td>
<td>3300 g</td>
<td>2800 g</td>
<td>2600 g</td>
<td>2500 g</td>
<td>2200 g</td>
<td>1900 g</td>
</tr>
</tbody>
</table>

2 a tray Ellen + Kayden = 5 kg
b trays Hassan + Lexi = 4 kg 500 g
c trays John + Nina = 5 kg 800 g

3 a 5000 g
b 5100 g

4 Ellen + Nina + Kayden

5 John had 3150 g left
Ellen had 2650 g left
Hassan had 2450 g left

Lesson 4, Extension: Shopping problems

Example: 245 g
Other answers will vary.

Unit 3, Week 2: Number - Addition and subtraction

Lesson 1, Support: Adding 1s

1 81
2 91
3 96
4 112
5 122

Lesson 2, Extension: Missing numbers (1)

1 a 191
b 247
c 432
d 319
e 513

2 Answers will vary.

Lesson 3, Support: Counting on in 100s

1 42, 142, 242, 342, 442, 542, 642, 742, 842, 942
2 38, 138, 238, 338, 438, 538, 638, 738, 838, 938
3 51, 151, 251, 351, 451, 551, 651, 751, 851, 951
4 49, 149, 249, 349, 449, 549, 649, 749, 849, 949
5 68, 168, 268, 368, 468, 568, 668, 768, 868, 968
6 77, 177, 277, 377, 477, 577, 677, 777, 877, 977
7 13, 113, 213, 313, 413, 513, 613, 713, 813, 913
8 94, 194, 294, 394, 494, 594, 694, 794, 894, 994
9 80, 180, 280, 380, 480, 580, 680, 780, 880, 980
10 99, 199, 299, 399, 499, 599, 699, 799, 899, 999

Lesson 4, Extension: Shopping problems

Example: 130p
Other answers will vary.

Unit 3, Week 3: Geometry - Properties of shape

Lesson 2, Extension: More robot patterns

1 a They are reflections of one another.

Lesson 3, Support: Turning the hands

1 a 9 o'clock
b 11 o'clock
c 11 o'clock
d 11 o'clock
e 9 o'clock
f 9 o'clock

Lesson 3, Extension: Taking turns

Game

Lesson 4, Support: All sorts of fans

1, 2 Open
3 Less than a right angle b, c, d
More than a right angle a, e, f

Unit 4, Week 1: Number - Multiplication and division, incl. Number and place value

Lesson 2, Support: 4 multiplication table

1 a 8, 16, 32, 64
b 6, 12, 24, 48, 96
c 10, 20, 40, 80

2 a 5 × 2 = 10 6 × 2 = 12
b 3 × 2 = 6 6 × 2 = 12
c 6 × 2 = 12 8 × 2 = 16
d 7 × 2 = 14 3 × 4 = 12
e 8 × 2 = 16 7 × 4 = 28
f 9 × 2 = 18 9 × 4 = 36

Lesson 3, Extension: Speedy multiplication tables

Game
Lesson 4, Extension: Multiplication and division of 4

1 60 × 4 = 240  240 ÷ 4 = 60
2 8 × 4 = 32  32 ÷ 4 = 8
3 40 × 4 = 160  160 ÷ 4 = 40
4 9 × 4 = 36  36 ÷ 4 = 9
5 80 × 4 = 320  320 ÷ 4 = 80
6 7 × 4 = 28  28 ÷ 4 = 7
7 70 × 4 = 280  280 ÷ 4 = 70
8 10 × 4 = 40  40 ÷ 4 = 10
9 50 × 4 = 200  200 ÷ 4 = 50
10 5 × 4 = 20  20 ÷ 4 = 5

Unit 4, Week 2: Number - Multiplication and division, incl. Number and place value

Lesson 2, Support: 8 multiplication table

Game

Lesson 3, Support: Doubling to find the 8 multiplication tables

1 a 5 × 4 = 20  5 × 8 = 40
b 3 × 4 = 12  3 × 8 = 24
c 6 × 4 = 24  6 × 8 = 48
d 7 × 4 = 28  7 × 8 = 56
e 8 × 4 = 32  8 × 8 = 64
f 9 × 4 = 36  9 × 8 = 72
2 8, 32, 40, 56, 64, 72, 88, 96

Lesson 3, Extension: Doubling to find the 4 and 8 multiplication tables

1 3, 8  4, 8, 8
2 5, 8  5, 12, 8
3 6, 4  6, 12, 8

Lesson 4, Extension: All things 8: solving word problems

1 3 × 8 = 24
   She needed 24 pipe cleaners.
2 32 ÷ 8 = 4
   4 spiders could be made.
   2 × 8 = 16
   16 more pipe cleaners are needed.
3 36 ÷ 4 = 9
   9 webs were needed.
4 30 × 8 = 240
   240 pipe cleaners would used.
5 60 × 8 = 480
   20 × 8 = 160
   480 + 160 = 640
   640 pipe cleaners were used altogether.
6 60 × 2 = 120
   20 × 2 = 40
   120 + 40 = 160
   There were 160 eyes altogether.
7 Answers will vary.

Unit 4, Week 3: Measurement (time)

Lesson 1, Support: Time to the minute

1 25 min to 3
2 9 min past 10
3 4 min to 6
4 27 min past 3
5 2 min to 11
6 17 min to 11

Lesson 2, Extension: Olympics time line

1 1984 USA
   1988 South Korea
   1992 Spain
   1996 USA
   2000 Australia
   2004 Greece
   2008 China
   2012 UK
2 Moscow, Soviet Union

Lesson 3, Support: Roman dials and station clocks

1 15 min past 12
2 5 min to 8
3 Clock A  18:16  Clock B  15:40
4 Timeline for Winter Olympics

Lesson 3, Support: Station times

1

<table>
<thead>
<tr>
<th>24-hour clock</th>
<th>12-hour clock</th>
</tr>
</thead>
<tbody>
<tr>
<td>a 14:39</td>
<td>2:39</td>
</tr>
<tr>
<td>b 14:54</td>
<td>2:54</td>
</tr>
<tr>
<td>c 14:24</td>
<td>2:24</td>
</tr>
<tr>
<td>d 15:04</td>
<td>3:04</td>
</tr>
<tr>
<td>e 14:04</td>
<td>2:04</td>
</tr>
<tr>
<td>f 11:34</td>
<td>11:34</td>
</tr>
<tr>
<td>g 19:34</td>
<td>7:34</td>
</tr>
</tbody>
</table>

2 16 minutes

3 a 11:53  d 6:45 p.m.
   b 12:22 p.m.  e 22:05
   c 15:10

Unit 5, Week 1: Number - Number and place value

Lesson 1, Extension: Larger number wins

Game

Lesson 3, Extension: How much money?

Open

Lesson 4, Support: Find your way

Answers will vary.

Unit 5, Week 2: Number - Addition and subtraction incl. Measurement (money)

Lesson 1, Support: Amounts of money

1 14p = 10p + 2p + 2p
2 28p = 20p + 5p + 2p + 1p
3 35p = 20p + 10p + 5p
4 43p = 20p + 20p + 2p + 1p
5 72p = 50p + 20p + 2p
6 65p = 50p + 10p + 5p
7 57p = 50p + 5p + 2p

Lesson 2, Extension: How much change?

1 a 73p  d 53p
   b 49p  e 36p
   c 45p  f 73p
2 Tuna roll, yoghurt and juice

Lesson 3, Support: Calculating change

1 27p  4 36p
2 34p  5 20p
3 23p
Lesson 4, Extension: Furniture shop
Answers will vary.

Unit 5, Week 3: Geometry – Properties of shape
Lesson 2, Support: New shapes from old
Open

Lesson 2, Extension: Triangles in a row

<table>
<thead>
<tr>
<th>Triangle</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of small triangles</td>
<td>1</td>
<td>4</td>
<td>9</td>
<td>16</td>
<td>25</td>
<td>36</td>
<td>49</td>
</tr>
</tbody>
</table>

3 You need to multiply the number of triangle by itself to find out the number of small triangles the pattern, for example, to find out the number of small triangles in the 2nd triangle, you need to do $2 \times 2$.

4 a 64 b 100

Lesson 3, Support: Exploring shapes
Open

Lesson 3, Extension: Exploring shapes
1-3 Open

Unit 6, Week 1: Number – Multiplication and division incl. Number and place value
Lesson 1, Extension: Counting in steps of 2, 4 and 8

1 2: 46, 58, 44, 76, 92, 60, 100, 120
4: 48, 80, 24, 120, 32, 240, 84
8: 16, 80, 640, 32, 160, 64, 320, 56, 88, 168

2 a

<table>
<thead>
<tr>
<th>60</th>
<th>62</th>
<th>64</th>
<th>66</th>
<th>68</th>
<th>70</th>
<th>72</th>
<th>74</th>
<th>76</th>
<th>78</th>
<th>80</th>
<th>82</th>
<th>84</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>28</td>
<td>32</td>
<td>36</td>
<td>40</td>
<td>44</td>
<td>48</td>
<td>52</td>
<td>56</td>
<td>60</td>
<td>64</td>
<td>68</td>
<td>72</td>
</tr>
</tbody>
</table>

b

<table>
<thead>
<tr>
<th>24</th>
<th>32</th>
<th>40</th>
<th>48</th>
<th>56</th>
<th>64</th>
<th>72</th>
<th>80</th>
<th>88</th>
<th>96</th>
<th>104</th>
<th>112</th>
<th>120</th>
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<tbody>
<tr>
<td>40</td>
<td>80</td>
<td>120</td>
<td>160</td>
<td>200</td>
<td>240</td>
<td>280</td>
<td>320</td>
<td>360</td>
<td>400</td>
<td>440</td>
<td>480</td>
<td></td>
</tr>
</tbody>
</table>

c

d

Lesson 1, Support: Finding quarters

1 a $\frac{1}{4}$ of 8 = 2
2 $\frac{1}{4}$ of 12 = 3
3 $\frac{1}{4}$ of 20 = 5

4 $\frac{1}{4}$ of 28 = 7

$\frac{7}{4}$ of 12 = 4

6 $\frac{4}{3}$ of 24 = 16

7 $\frac{2}{3}$ of 33 = 22

8 $\frac{4}{10}$ of 40 = 16

Lesson 3, Extension: Halving to find the division facts (1)

1 a

b $\frac{36}{2} = \frac{18}{2} = \frac{9}{2}$
$\frac{16}{2} = 8; \frac{8}{2} = 4$
$c \frac{24}{2} = 12; \frac{12}{2} = 6$
$\frac{24}{4} = 6$
d $\frac{28}{2} = 14; \frac{14}{2} = 7; \frac{28}{4} = 7$
e $\frac{32}{2} = 16; \frac{16}{2} = 8$
$\frac{32}{4} = 8$

Lesson 3, Support: Halving to find the division facts (2)

1 a $80 + 8 = 10$
$24 + 8 = 3$
$48 + 8 = 6$
$56 + 8 = 7$
$72 + 8 = 9$

2 a $8, 20, 32, 40, \ldots 36, 24, 28$

b $16, 20, 30, 40, \ldots 50, 40, 30$

c $80, 160, 240, 320, 400, 480$

Lesson 3, Extension: Solving word problems

1 a 8 stamps in each row
b $3 \times 8 = 24$; She buys 24 stamps altogether
c $6 \times 8 = 48$; She buys 48 stamps altogether. 16 stamps are left
d $2 \times 24 = 48; 2 \times 40 = 80; 48 + 80 = 128$ I have 128 stamps altogether

2 Answers will vary.
a 9
b 48

c $8 \div 2 = 4$
$8 \div 4 = 2$

Lesson 3, Support: Comparing lengths
Open

Unit 6, Week 3: Measurement (length)
Lesson 2, Support: Millimetres of bracelets

1 [Allow for rounding up or down]
a = 9 cm
d = 8 cm
c = 13/14 cm

2 [Accept ± 1 mm]
a = 93 mm,
d = 79 mm
b = 155 mm

e = 117 mm
c = 135 mm

Lesson 2, Extension: Spirals in millimetres

1 a

b Answers may vary

2 a

b Answers may vary

Lesson 3, Support: Shading number lines
Open

Lesson 3, Extension: Fraction diagrams

1 Answers will vary.
2 Answers will vary.
3 Answers will vary.

Lesson 4, Support: Counting in steps of 2, 4 and 8

1 2: 46, 58, 44, 76, 92, 60, 100, 120
4: 48, 80, 24, 120, 32, 240, 84
8: 16, 80, 640, 32, 160, 64, 320, 56, 88, 168

2 a

<table>
<thead>
<tr>
<th>60</th>
<th>62</th>
<th>64</th>
<th>66</th>
<th>68</th>
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b

<table>
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<th>24</th>
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<td>160</td>
<td>200</td>
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<td>280</td>
<td>320</td>
<td>360</td>
<td>400</td>
<td>440</td>
<td>480</td>
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</tbody>
</table>

c

d

Lesson 2, Extension: Non-unit fractions

1 $\frac{1}{2}$ of 18 = 12
$\frac{1}{2}$ of 10 = 4
$\frac{3}{4}$ of 20 = 12
$\frac{4}{5}$ of 16 = 8

5 $\frac{2}{3}$ of 12 = 4

6 $\frac{4}{3}$ of 24 = 16

7 $\frac{2}{3}$ of 33 = 22

8 $\frac{4}{10}$ of 40 = 16

Lesson 3, Extension: Fraction diagrams

1 Answers will vary.
2 Answers will vary.
3 Answers will vary.

Lesson 4, Support: Shading number lines
Open

Unit 6, Week 3: Measurement (length)
Lesson 2, Support: Millimetres of bracelets

1 [Allow for rounding up or down]
a = 9 cm
d = 8 cm
c = 13/14 cm

2 [Accept ± 1 mm]
a = 93 mm,
d = 79 mm
b = 155 mm

e = 117 mm
c = 135 mm

Lesson 2, Extension: Spirals in millimetres

1 a

b Answers may vary

2 a
Unit 7, Week 1: Number - Addition and subtraction incl. Measurement (money)

Lesson 1, Support: Adding 1s and 10s

1  81
2  67
3  78
4  99
5  98
6  89
7  99
8  97
9  97

Lesson 2, Extension: Addition instructions

1 Answers will vary.
2 A = 8  D = 5  I = 0  K = 1  M = 4

Lesson 3, Extension: Addition puzzle

Answers will vary.

Lesson 4, Support: Add numbers mentally

1 a  64  b  68  c  77
2 a  236  b  348  c  471

Lesson 2, Extension: Subtraction instructions

1 Answers will vary.

Unit 7, Week 2: Number - Addition and subtraction incl. Measurement (money)

Lesson 1, Support: Subtracting 1s and 10s

1  44
2  33
3  23
4  25
5  23
6  43
7  42
8  42
9  42
10  64
11  51
12  56

Lesson 2, Extension: Subtraction instructions

1 Answers will vary.

Lesson 3, Support: Subtracting 10s and 100s

1 a  44  b  18  c  28
2 a  228  b  181  c  157

Lesson 3, Extension: Capacity bar chart

Answers will vary.

Unit 7, Week 3: Statistics

Lesson 1, Support: Fruit and vegetable charts

Item | Frequency |
--- | --- |
apples | 3 |
bananas | 5 |
carrots | 7 |
mushrooms | 8 |
pears | 2 |

Lesson 2, Support: Counters pictogram

Game

Lesson 2, Extension: Dice pictograms

Game

Lesson 3, Extension: Capacity bar chart

Answers will vary.

Unit 8, Week 1: Number - Multiplication and division incl. Number and place value

Lesson 2, Support: Revising multiplication facts

Game

Lesson 2, Extension: Revising multiplication facts

1 x 5 4 3
2 x 2 3 5 10 12
3 x 2 3 4 5 8 10
4 x 2 4 6 10 20 24
5 x 2 4 8 16 32 64

Lesson 3, Support: Revising division facts

Game

Lesson 4, Extension: Solving problems

1 108 pencils
2 60 flowers
3 180 wheels
Unit 8, Week 2: Number – Fractions
Lesson 1, Extension: Pizza problem
1 Answers will vary.
2 Variations of $\frac{1}{6} + \frac{2}{6} + \frac{3}{6}$ and $\frac{2}{6} + \frac{2}{6} + \frac{2}{6}$.

Lesson 2, Support: Subtracting snakes
1 a $\frac{2}{9}$ b $\frac{3}{9}$
2 a $\frac{2}{7}$ b $\frac{2}{7}$
3 Answers will vary.

Lesson 2, Extension: Subtracting beyond 1 whole
1 $\frac{5}{8}$ $\frac{5}{8}$
2 $\frac{5}{2}$ $\frac{5}{2}$
3 $\frac{5}{2}$ $\frac{7}{1}$
4 $\frac{8}{2}$ $\frac{5}{2}$

Lesson 4, Support: Building fractions
1 Open
2 They all equal $\frac{1}{2}$

Unit 8, Week 3: Measurement (perimeter)
Lesson 2, Support: Perimeters of rectangles
1 12 cm 6 12 cm
2 14 cm 7 16 cm
3 16 cm 8 10 cm
4 16 cm 9 16 cm
5 14 cm 10 8 cm

Lesson 2, Extension: Predicting perimeters
1 Open
2

<table>
<thead>
<tr>
<th>Rectangle</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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</thead>
<tbody>
<tr>
<td>Perimeter</td>
<td>6 cm</td>
<td>8 cm</td>
<td>10 cm</td>
<td>12 cm</td>
<td>14 cm</td>
<td>16 cm</td>
<td>18 cm</td>
</tr>
</tbody>
</table>

3 Pattern increases by 2 each time. Rule is: 2 times the rectangle number plus 4.
Lesson 1, Extension: Fractions full or empty
1 a \( \frac{3}{5} \) 900 ml
b \( \frac{4}{5} \) 100 ml
2 \( \frac{3}{10} \) 800 ml
\( \frac{3}{7} \) 250 ml
3 \( \frac{5}{7} \) 500 ml
\( \frac{4}{10} \) 250 ml
\( \frac{5}{10} \) 500 ml
\( \frac{6}{7} \) 600 ml
4 \( \frac{2}{5} \) 250 ml
\( \frac{3}{10} \) 750 ml
\( \frac{6}{7} \) 700 ml
\( \frac{5}{10} \) 900 ml

Lesson 2, Support: Go-kart millilitres

<table>
<thead>
<tr>
<th>Go-kart</th>
<th>Fuel in ml</th>
<th>Fuel in litres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>600 ml</td>
<td>( \frac{6}{10} ) l</td>
</tr>
<tr>
<td>Jupiter</td>
<td>400 ml</td>
<td>( \frac{4}{10} ) l</td>
</tr>
<tr>
<td>Mars</td>
<td>100 ml</td>
<td>( \frac{1}{10} ) l</td>
</tr>
<tr>
<td>Neptune</td>
<td>900 ml</td>
<td>( \frac{9}{10} ) l</td>
</tr>
<tr>
<td>Uranus</td>
<td>200 ml</td>
<td>( \frac{2}{10} ) l</td>
</tr>
<tr>
<td>Saturn</td>
<td>800 ml</td>
<td>( \frac{8}{10} ) l</td>
</tr>
<tr>
<td>Asteroid</td>
<td>500 ml</td>
<td>( \frac{5}{10} ) l</td>
</tr>
</tbody>
</table>

Lesson 3, Extension: Measuring in millilitres
1 blueberry 700 ml
lemon 300 ml
lime 150 ml
orange 450 ml
raspberry 800 ml
strawberry 250 ml
2 a 1000 ml, \( \frac{1}{10} \) litre strawberry
b 1500 ml, \( \frac{1}{10} \) litre lemon
c 2400 ml, \( \frac{2}{10} \) litre raspberry
d 1500 ml, \( \frac{1}{10} \) litre lime
e 3500 ml, \( \frac{3}{10} \) litre blueberry
f 1800 ml, \( \frac{1}{10} \) litre orange
3 a 600 ml
b 900 ml

d £312

Unit 11, Week 3: Measurement (time)
Lesson 1, Support: Digital and wall clocks

<table>
<thead>
<tr>
<th>Tens</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>74–44</td>
</tr>
<tr>
<td>2</td>
<td>89–49</td>
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<tr>
<td>3</td>
<td>104–54</td>
</tr>
<tr>
<td>4</td>
<td>136–76</td>
</tr>
<tr>
<td>5</td>
<td>152–92</td>
</tr>
</tbody>
</table>

Lesson 2, Extension: Make 900
Answers will vary.

Lesson 4, Support: Jumping backwards

<table>
<thead>
<tr>
<th>Tens</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>74–44</td>
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<tr>
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<td>3</td>
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</tr>
<tr>
<td>4</td>
<td>136–76</td>
</tr>
<tr>
<td>5</td>
<td>152–92</td>
</tr>
</tbody>
</table>

Unit II, Week 3: Measurement (time)
Lesson 1, Support: Digital and wall clocks

<table>
<thead>
<tr>
<th>Tens</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>74–44</td>
</tr>
<tr>
<td>2</td>
<td>89–49</td>
</tr>
<tr>
<td>3</td>
<td>104–54</td>
</tr>
<tr>
<td>4</td>
<td>136–76</td>
</tr>
<tr>
<td>5</td>
<td>152–92</td>
</tr>
</tbody>
</table>

Lesson 2, Extension: Make 900
Answers will vary.
Lesson 3, Support: Days of the month
1 30 days has September, April June and November. All the rest have 31 except February alone which has 28 days and 29 days in each leap year.
2 a 4 days  b 4 days  c 4 days  d 5 days
3 a Tuesday  b Thursday  c Friday  d Friday

Lesson 3, Extension: Calendar counting
1 a Tuesday
b Thursday
c Friday
d Friday

Unit 12, Week 2: Number - Multiplication and division
Lesson 1, Support: Division using partitioning
1 3 9, 3, 6, 30, 60, 90,
2 2 20, 4, 8, 40, 80,
2 a 23  b 21  c 31  d 12
2 a 32  b 22  c 22

Lesson 3, Support: Division using the formal written method
1 15 4 15
2 16 5 14
3 28

Lesson 3, Extension: Division using the formal written method
1 a 23  b 27  c 18
2 Answers will vary.
3 Answers will vary.

Lesson 4, Extension: Solving word problems
1 19 bags of red peppers altogether.
2 208 pieces of sweet corn can be made from 1 box.
3 512 florets in one box of broccoli.
4 24 bags of carrots, 27 bags of onions. There are more bags of onions.
5 190 vegetables altogether.
6 16 broccoli, 27 onions, 12 carrots are needed one quarter.

Unit 12, Week 3: Statistics
Lesson 2, Support: Savings bar chart
1

Lesson 2, Extension: Racing game bar chart
Open

Lesson 3, Support: Dice spots pictogram
1

Lesson 3, Extension: Dice spots pictogram
1
2 a 6  b 4
3 a 7  b 17

Lesson 4, Extension: Bags of fruit bar chart
1 apples oranges, bananas, melons.
2 a oranges  b melons
3 a 5  b 20
4 Bar to 40
5 10
6 30 apples, 48 oranges, 26 bananas, 14 melons, 37 pears.
Lesson 4: Make the larger number

3 cubes added each time to make the next model. Pattern is going up in 3s. 10th pattern needs \((10 \times 3) + 2\) cubes = 32 cubes.

Unit 2, Week 1: Number - Multiplication and division

Lesson 3: All about 3s

- 9, 3, 3, 15, 18, 21, 8, 6, 9

- 3 cubes added each time to make the next model. Pattern is going up in 3s. 10th pattern needs \((10 \times 3) + 2\) cubes = 32 cubes.

Unit 2, Week 2: Number - Addition and subtraction

Lesson 3: Adding 1s, 10s and 100s

Answers will vary.

Lesson 4: 2s, 3s, 5s and 10s

Answers will vary.

Lesson 3: What's for supper?

- Ingredients
  - Chocolate 150 g 300 g 450 g
  - Cornflakes 150 g 300 g 600 g
  - Honey 50 g 100 g 200 g

- Number of people
  - 2 4 8 10 12

Homework Guide 3

Unit 1, Week 1: Number - Number and place value

Lesson 2: Ways to partition

Answers will vary.

Lesson 4: Make the larger number

Game

Unit 1, Week 2: Number - Addition and subtraction

Lesson 1: 2-digit addition

Open

Lesson 3: Fraction snakes

Open

Unit 2, Week 3: Measurement (mass)

Lesson 1: Grocery grams

Answers will vary.

Lesson 2: Ways to partition

Answers will vary.

Lesson 3: All about 3s

Answers will vary.

Homework Guide 3

Unit 1, Week 3: Geometry - Properties of shape

Lesson 1: Shapes about the home

Open

Lesson 4: Patterns of 3-D shapes

Open

Lesson 1: Fractions at home

Open

Lesson 3: Adding 1s, 10s and 100s

Answers will vary.
Lesson 2: Investigating robot routes

Lesson 4: Check out the angles

Challenge

Challenge

Challenge

Challenge

Challenge

Challenge

Challenge

Challenge

Challenge

Challenge

Challenge

Lesson 2: Using the key facts to find the 4 multiplication table

Lesson 4: All things 8: solving word problems

Lesson 1: Counting in 4s

Lesson 1: Right on time

Unit 4, Week 3: Measurement (time)

Lesson 1: Missing number subtractions

Lesson 3: Subtracting 1s, 10s and 100s

Lesson 3: Geometry - Properties of shape

Lesson 1: Counting in 4s

Lesson 1: Subtracting 1s, 10s and 100s

Lesson 2: Investigating robot routes

Lesson 1: Subtraction
Lesson 2: Puzzle time

Get up, 6:30 am
Taxis to airport, 8:00 am
Flight departs, 11:30 am
Flight lands, 2:30 pm
Arrive hotel, 4:00 pm
In the pool, 5:30 pm

1 hour 30 minutes
2
3

Challenge
Answer will vary.

Unit 5, Week 1: Number - Number and place value

Lesson 2: Make the larger number

Open

Lesson 3: Making amounts of money

Answer will vary.

Unit 5, Week 2: Addition and subtraction incl. Measurement (money)

Lesson 1: The café

Open

Lesson 3: Fruit stall

Answers will vary.

Unit 5, Week 3: Geometry - Properties of shape

Lesson 2: Make and match shapes

Shape Four-sided Sides same length
B ✔ ✔
C ✔ ✔
D, A ✔

Answers must show equal sides marked in blue and right angles circled in red

Answers will vary.
Lesson 3: Spinning subtraction

Open

Unit 7, Week 3: Statistics
Lesson 1: Keeping a tally

<table>
<thead>
<tr>
<th>Popular words</th>
<th>Frequency</th>
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<tbody>
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<td>the</td>
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<td>was</td>
<td>11</td>
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<tr>
<td>and</td>
<td>20</td>
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<tr>
<td>to</td>
<td>12</td>
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<tr>
<td>from</td>
<td>7</td>
</tr>
<tr>
<td>they</td>
<td>13</td>
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</tbody>
</table>

Answers will vary.

Answers will vary.

Lesson 3: Tins, packets and bags

<table>
<thead>
<tr>
<th>Item</th>
<th>Number</th>
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<tbody>
<tr>
<td>tins</td>
<td>8</td>
</tr>
<tr>
<td>packets</td>
<td>10</td>
</tr>
<tr>
<td>bags</td>
<td>4</td>
</tr>
</tbody>
</table>

1 a There are more packets than tins.
   b There are 4 fewer bags than tins.

Food packaging

<table>
<thead>
<tr>
<th>Number of Items</th>
<th>tins</th>
<th>packets</th>
<th>items</th>
<th>bags</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>8</td>
<td>☐</td>
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<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>6</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>4</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Food packaging

Item | Food packaging
-----|-------------------
|     | ☐ ☐ ☐ ☐ ☐      |
| tins| ☐ ☐ ☐ ☐ ☐      |
|     | ☐ ☐ ☐ ☐ ☐      |
|     | ☐ ☐ ☐ ☐ ☐      |
|     | ☐ ☐ ☐ ☐ ☐      |

Key ☐ = 2 items

Unit 8, Week 2: Number - Fractions
Lesson 1: Making pizzas

Open

Unit 8, Week 2: Number - Fractions
Lesson 3: Fraction snakes

Game

Unit 8, Week 3: Measurement (perimeter)
Lesson 3: Perimeter search

1 to 4 all perimeters = 7 cm

Answers will vary.

Lesson 4: Join up the rectangles

<table>
<thead>
<tr>
<th>Item</th>
<th>22 cm</th>
<th>24 cm</th>
<th>26 cm</th>
<th>28 cm</th>
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</thead>
<tbody>
<tr>
<td>a</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>b</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>c</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>d</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Unit 9, Week 1: Number - Number and place value
Lesson 1: Raffle raffle

1 a 53 54 55
   b 65 66 67
   c 105 106 107
   d 124 125 126

Answers will vary.

Lesson 4: Secret numbers

Game

Unit 9, Week 2: Number - Addition and subtraction
Lesson 1: Mental jumps

Answers will vary.

Lesson 3: Practising the column method for subtraction

1 a 211
   b 113
   c 232
   d 164

2 a 245
   b 242
   c 449
   d 318

3 a 318
   b 374
   c 453
   d 386

4 e 263
   f 212
   g 213
   h 221

5 a 319
   b 326
   c 332
   d 327

6 a 471
   b 562
   c 483
   d 438

7 Set A E, F, H, L, N, T, V, W, X, Y, Z on a square dot grid with horizontal lines in blue, vertical lines in red and diagonal lines in green.

8 a Capital letter I
    b Has a vertical line only
Lesson 3: Pin board puzzles
Open

Unit 10, Week 1: Number - Multiplication and division

Lesson 1: Multiplication using partitioning

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
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<td>270</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>24</td>
<td>240</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>150</td>
<td>240</td>
<td></td>
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Lesson 3: Multiplication: Introducing the expanded written method

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<tbody>
<tr>
<td>1</td>
<td>150</td>
<td>3</td>
<td>280</td>
</tr>
<tr>
<td>2</td>
<td>150</td>
<td>4</td>
<td>720</td>
</tr>
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</table>

Unit 10, Week 2: Number - Fractions

Lesson 2: Home fractions
Answers will vary.

Lesson 3: Fraction wall equivalents
Answers will vary.

Unit 10, Week 3: Measurement (volume and capacity)

Lesson 3: Multiples of millilitres

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount in millilitres</th>
<th>100 ml</th>
<th>200 ml</th>
<th>400 ml</th>
<th>800 ml</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>500 ml</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>600 ml</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>700 ml</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>800 ml</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Unit 10, Week 2: Number - Fractions

Lesson 3: Fraction wall equivalents
Answers will vary.

Unit 11, Week 1: Number - Addition and subtraction incl. Measurement (money)

Lesson 2: Meet my addition target
Answers will vary.

Lesson 3: Finding change
Answers will vary.

Unit 11, Week 2: Number - Addition and subtraction incl. Measurement (money)

Lesson 2: Meet my subtraction target
Answers will vary.

Lesson 4: Jumping forward and backwards
Answers will vary.

Unit 11, Week 3: Measurement (time)

Lesson 3: Calendar patterns

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<thead>
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Unit 12, Week 1: Number - Multiplication and division

Lesson 2: Multiplication: Introducing the formal written method

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<td>c</td>
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<tr>
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Unit 12, Week 2: Number - Multiplication and division

Lesson 1: Division using partitioning

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<td>10</td>
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<td>3</td>
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Lesson 4: Solving problems

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<tbody>
<tr>
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<td>232 people.</td>
<td>232 people.</td>
<td>232 people.</td>
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<tr>
<td>b</td>
<td>392 pencils.</td>
<td>392 pencils.</td>
<td>392 pencils.</td>
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<tr>
<td>c</td>
<td>18 more biscuits.</td>
<td>18 more biscuits.</td>
<td>18 more biscuits.</td>
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<tr>
<td>d</td>
<td>201 wheels.</td>
<td>201 wheels.</td>
<td>201 wheels.</td>
</tr>
<tr>
<td>e</td>
<td>47 cakes.</td>
<td>47 cakes.</td>
<td>47 cakes.</td>
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<tr>
<td>f</td>
<td>390 flowers.</td>
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Unit 12, Week 2: Number - Multiplication and division

Lesson 4: Solving problems

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<tr>
<td>a</td>
<td>24</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>15</td>
<td>18</td>
<td>21</td>
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<tr>
<td>c</td>
<td>32</td>
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Unit 12, Week 2: Number - Multiplication and division

Lesson 4: Solving problems

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<td>4: 36, 24, 20, 48, 28, 12.</td>
<td>4: 36, 24, 20, 48, 28, 12.</td>
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<td>c</td>
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Lesson 3: Calendar patterns

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Lesson 4: Today's TV Guide
Open
Lesson 3: Division using the formal written method

1 4 40
2 4 40
3 6 60
4 7 70
5 7 70
6 2 20

Answers will vary.

Unit 12, Week 3: Statistics

Lesson 1: Weather pictograms

Rainy days

March
April
May
June
July

Sunny days

March
April
May
June
July

Key  ● = 2 rainy days

Key  ○ = 4 sunny days
● = 2 sunny days

Lesson 3

<table>
<thead>
<tr>
<th>Month</th>
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<tbody>
<tr>
<td>March</td>
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<td>April</td>
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<td>May</td>
<td>13</td>
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<td>June</td>
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<tr>
<td>July</td>
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Lesson 4: Coins bar chart

Open