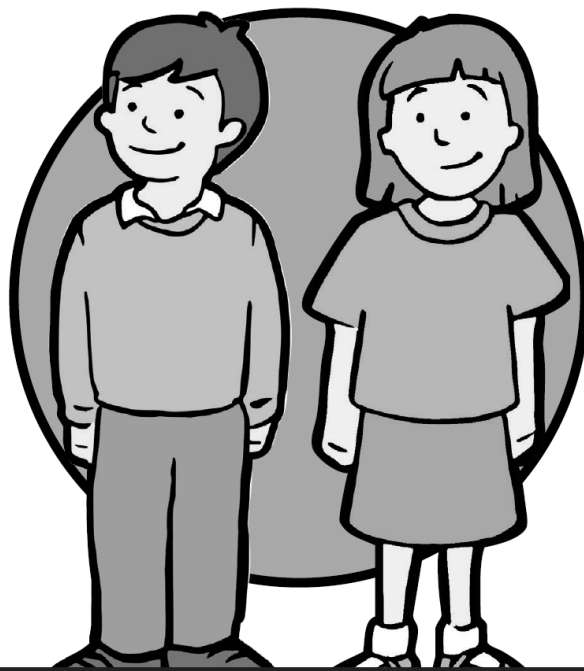


HeadStart
primary

**Mastering the
Arithmetic Curriculum**

Year 1

Part 1



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Guidance

YEAR 1: MASTERING THE ARITHMETIC CURRICULUM

Introduction - National Curriculum

This booklet is Part 1 of a 3-booklet series which covers all the 'matters, skills and processes' specified in the 'Number' aspect of the Mathematics National Curriculum. These 'matters, skills and processes' are often referred to as 'learning objectives' or 'learning outcomes'.

In Year 1, the focus for arithmetic is to develop confidence and mental fluency with whole numbers, counting and place value. Children begin to use this fluency with numbers to solve simple calculations, and to develop their understanding of simple fractions.

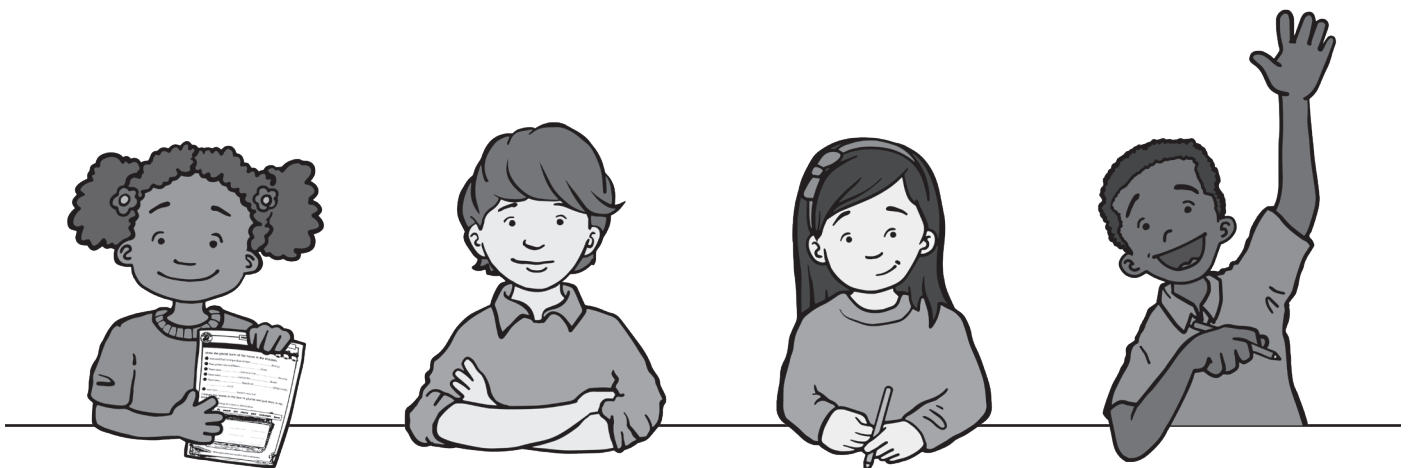
The specific objectives covered in this booklet are identified on the contents page. The 3 booklets in the series cover all the National Curriculum number objectives for Year 1.

Content of the booklet

The content is ideal for reinforcement and consolidation of taught objectives, which can be done in school or as home learning. It can also be used to introduce new National Curriculum objectives which may be unfamiliar to children. In general, the practice examples are arranged so that they become progressively more difficult working down the page.

Using the booklet

The booklet is designed so that children are able to write their answers directly onto the pages. Space is available for working out, but if any additional working out or counting is necessary, an exercise book or paper would be needed.



Contents

Unit 1 - Counting

Pages/sections

OBJECTIVES AND DESCRIPTION OF CONTENT

ONES

Pages 1-3

Count forwards in ones

Section A

Counting forwards from any number up to 50. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting forwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting forwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

Pages 4-6

Count backwards in ones

Section A

Counting backwards from any number up to 50. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting backwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting backwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

Pages 7-8

Count forwards and backwards in ones

Section A

Counting forwards and backwards from any number up to 50. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting forwards and backwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting forwards and backwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

TWOS

Pages 9-11

Count forwards in twos

Section A

Counting forwards from any multiple of 2 up to 50. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting forwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting forwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

Contents

Unit 1 - Counting

Pages/sections

OBJECTIVES AND DESCRIPTION OF CONTENT

Pages 12-14

Count backwards in twos

Section A

Counting backwards from any even number up to 50. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting backwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting backwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

Pages 15-16

Count forwards and backwards in twos

Section A

Counting forwards and backwards from any even number up to 50. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting forwards and backwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting forwards and backwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

FIVES

Pages 17-19

Count forwards in fives

Section A

Counting forwards from any multiple of 5 up to 100. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting forwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting forwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

Pages 20-22

Count backwards in fives

Section A

Counting backwards from any multiple of 5 up to 100. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting backwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting backwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

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Unit 1 - Counting

Pages/sections

OBJECTIVES AND DESCRIPTION OF CONTENT

Pages 23-24

Count forwards and backwards in fives

Section A

Counting forwards and backwards from any multiple of 5 up to 100. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting forwards and backwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting forwards and backwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

TENS

Pages 25-27

Count forwards in tens

Section A

Counting forwards from any multiple of 10 up to 100. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting forwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting forwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

Pages 28-30

Count backwards in tens

Section A

Counting backwards from any multiple of 10 up to 100. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting backwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting backwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

Pages 31-32

Count forwards and backwards in tens

Section A

Counting forwards and backwards from any multiple of 10 up to 100. Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Counting forwards and backwards from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Counting forwards and backwards from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

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Unit 1 - Counting

Pages/sections

1s, 2s, 5s, 10s

Pages 33-36

OBJECTIVES AND DESCRIPTION OF CONTENT

Identify and count forwards in ones, twos, fives and tens

(requires identification of the number counted in)

Section A

Identifying the multiple and counting forwards (ones from any number up to 50, twos from any even number up to 50, fives from any multiple of 5 up to 100, or tens from any multiple of 10 up to 100). Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Identifying the multiple and counting forwards in ones, twos, fives or tens from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Identifying the multiple and counting forwards in ones, twos, fives or tens from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

Pages 37-40

Identify and count backwards in ones, twos, fives and tens

(requires identification of the number counted in)

Section A

Identifying the multiple and counting backwards (ones from any number up to 50, twos from any even number up to 50, fives from any multiple of 5 up to 100, or tens from any multiple of 10 up to 100). Sequence includes three or four missing numbers out of ten, with two being consecutive

Section B

Identifying the multiple and counting backwards in ones, twos, fives or tens from any number up to 100. Sequence includes five or six missing numbers out of ten, with up to three being consecutive

Section C

Identifying the multiple and counting backwards in ones, twos, fives or tens from any number up to and beyond 100. Sequence includes seven or eight missing numbers out of ten, with several being consecutive

MORE

Pages 41-45

Identify more than a given number

Section A

Identifying one more than any number up to 20

Section B

Identifying one more than any number up to 50

Section C

Identifying one more than any number up to and beyond 100, and ten more than any number up to 100

UNIT 1

COUNTING

ONES



SECTION A - Write the missing numbers

1

0 1 3 4 6 8 9

2

15 17 18 19 22 24

SECTION B - Write the missing numbers

1

41 43 45 48 50

2

84 88 91 92

SECTION C - Write the missing numbers

1

74 75 77

2

94 99

SECTION A - Write the missing numbers

1

21 22 24 26 27 28 30

2

10 11 14 15 17 19

SECTION B - Write the missing numbers

1

70 72 73 75 77

2

48 52 55 56

SECTION C - Write the missing numbers

1

2 8 9

2

102 103

SECTION A - Write the missing numbers

1

3 4 6 7 9 10 12

2

32 34 35 38 40 41

SECTION B - Write the missing numbers

1

54 56 57 59 61

2

86 90 93 95

SECTION C - Write the missing numbers

1

61 64 66

2

36 37

SECTION A - Write the missing numbers

1

30 28 26 25 24 22 21

2

22 21 19 17 16 15

SECTION B - Write the missing numbers

1

 78 77 76 73 70

2

54 51 47 46

SECTION C - Write the missing numbers

1

 7 3 2

2

 63 57

SECTION A - Write the missing numbers

1

39 38 36 35 34 32 30

2

17 15 13 12 11 8

SECTION B - Write the missing numbers

1

60 57 56 53 51

2

8 4 3 2

SECTION C - Write the missing numbers

1

101 97 94

2

85 78

SECTION A - Write the missing numbers

1

2

SECTION B - Write the missing numbers

1

2

SECTION C - Write the missing numbers

1

2

SECTION A - Write the missing numbers

1

24 25 27 29 30 31 33

2

48 47 46 43 41 39

SECTION B - Write the missing numbers

1

91 90 89 87 84

2

69 72 76 78

SECTION C - Write the missing numbers

1

16 19 23

2

98 97

SECTION A - Write the missing numbers

1

14 13 11 10 8 7 5

2

37 36 33 32 30 28

SECTION B - Write the missing numbers

1

75 77 79 81 84

2

99 98 97 93

SECTION C - Write the missing numbers

1

56 55 53

2

6 8

UNIT 1

COUNTING

TWOS



SECTION A - Write the missing numbers

1

2 4 8 10 14 16 20

2

28 30 36 38 40 44

SECTION B - Write the missing numbers

1

 18 24 26 30 34

2

81 89 95 97

SECTION C - Write the missing numbers

1

 66 74 82

2

 51 65

SECTION A - Write the missing numbers

1

20 22 26 28 32 34 36

2

0 6 8 12 14 18

SECTION B - Write the missing numbers

1

82 88 92 96 98

2

39 47 49 55

SECTION C - Write the missing numbers

1

93 95 99

2

38 56

SECTION A - Write the missing numbers

1

0 2 6 10 12 14 16

2

16 18 22 28 30 34

SECTION B - Write the missing numbers

1

44 46 52 54 58

2

82 84 86 94

SECTION C - Write the missing numbers

1

87 95 99

2

18 34

SECTION A - Write the missing numbers

1

50 46 44 42 38 36 32

2

18 14 12 10 4 2

SECTION B - Write the missing numbers

1

43 37 35 29 27

2

 98 94 86 82

SECTION C - Write the missing numbers

1

60 48 42

2

 17 9

SECTION A - Write the missing numbers

1

46 42 38 36 34 32 28

2

28 24 22 16 14 10

SECTION B - Write the missing numbers

1

 76 74 72 66 62

2

97 93 85 79

SECTION C - Write the missing numbers

1

 83 77 71

2

108 92

SECTION A - Write the missing numbers

1

18 16 12 8 6 4 2

2

50 48 44 38 36 32

SECTION B - Write the missing numbers

1

99 97 91 85 83

2

35 33 25 21

SECTION C - Write the missing numbers

1

77 73 71

2

106 104

SECTION A - Write the missing numbers

1

30 28 26 22 18 16 12

2

30 32 36 42 44 48

SECTION B - Write the missing numbers

1

18 16 14 8 4

2

63 65 73 75

SECTION C - Write the missing numbers

1

84 86 88

2

57 51

SECTION A - Write the missing numbers

1

14 16 18 22 26 28 32

2

48 46 42 36 32 30

SECTION B - Write the missing numbers

1

99 97 93 87 83

2

2 4 6 12

SECTION C - Write the missing numbers

1

102 104 106

2

53 45

UNIT 1

COUNTING

FIVES



SECTION A - Write the missing numbers

1

0 5 15 20 30 35 45

2

45 50 65 70 80 85

SECTION B - Write the missing numbers

1

52 57 72 87 92

2

5 20 25 45

SECTION C - Write the missing numbers

1

3 23 48

2

6 46

SECTION A - Write the missing numbers

1

35 45 50 55 60 65 75

2

10 25 30 35 50 55

SECTION B - Write the missing numbers

1

3 8 23 28 38

2

 60 80 85 90

SECTION C - Write the missing numbers

1

 74 94 104

2

 21 56

SECTION A - Write the missing numbers

1

55 60 65 75 85 90 95

2

10 15 25 30 45 55

SECTION B - Write the missing numbers

1

54 59 64 74 89

2

23 28 43 58

SECTION C - Write the missing numbers

1

19 44 54

2

68 73

SECTION A - Write the missing numbers

1

85 75 70 60 55 45 40

2

45 40 30 20 15 10

SECTION B - Write the missing numbers

1

54 49 34 24 19

2

 95 80 65 55

SECTION C - Write the missing numbers

1

47 32 2

2

58 53

SECTION A - Write the missing numbers

1

50 45 35 30 20 15 5

2

100 95 90 75 65 60

SECTION B - Write the missing numbers

1

52 47 32 17 7

2

40 20 15 10

SECTION C - Write the missing numbers

1

41 31 6

2

103 63

SECTION A - Write the missing numbers

1

55 50 40 35 25 20 10

2

100 95 90 75 65 55

SECTION B - Write the missing numbers

1

91 86 71 61 46

2

47 42 37 17

SECTION C - Write the missing numbers

1

36 31 11

2

107 102

SECTION A - Write the missing numbers

1

50 55 65 70 75 85 90

2

45 40 30 20 15 10

SECTION B - Write the missing numbers

1

53 58 73 83 98

2

49 44 34 14

SECTION C - Write the missing numbers

1

37 17 12

2

61 76

SECTION A - Write the missing numbers

1

45 40 35 [] 25 [] 15 10 5 []

2

55 60 [] 70 [] [] 85 90 95 []

SECTION B - Write the missing numbers

1

1 6 [] 16 21 [] [] 36 [] []

2

97 92 [] 82 [] [] [] 62 [] []

SECTION C - Write the missing numbers

1

48 43 38 [] [] [] [] [] []

2

[] [] [] [] [] [] [] [] 104 109

UNIT 1

COUNTING

TENS



SECTION A - Write the missing numbers

1

10 30 40 60 70 80 100

2

0 30 40 50 80 90

SECTION B - Write the missing numbers

1

5 25 55 75 95

2

7 27 67 77

SECTION C - Write the missing numbers

1

 72 82 92

2

34 74

SECTION A - Write the missing numbers

1

0 10 20 40 60 70 80

2

10 20 50 60 80 90

SECTION B - Write the missing numbers

1

14 44 54 74 84

2

3 43 63 93

SECTION C - Write the missing numbers

1

47 57 87

2

70 90

SECTION A - Write the missing numbers

1

10 20 40 50 60 80 90

2

0 10 40 50 70 90

SECTION B - Write the missing numbers

1

6 16 46 76 86

2

8 18 48 88

SECTION C - Write the missing numbers

1

36 46 76

2

25 75

SECTION A - Write the missing numbers

1

90 70 60 50 30 20 10

2

100 70 60 50 30 20

SECTION B - Write the missing numbers

1

 82 72 42 22 12

2

96 56 36 6

SECTION C - Write the missing numbers

1

129 59 49

2

 125 85

SECTION A - Write the missing numbers

1

100 80 70 60 40 30 20

2

90 80 50 40 30 20

SECTION B - Write the missing numbers

1

91 81 51 21 1

2

 85 45 35 15

SECTION C - Write the missing numbers

1

 68 48 38

2

 113 43

SECTION A - Write the missing numbers

1

100 90 80 60 50 30 20

2

90 80 50 40 20 10

SECTION B - Write the missing numbers

1

99 89 59 29 9

2

97 87 47 27

SECTION C - Write the missing numbers

1

99 89 79

2

131 121

SECTION A - Write the missing numbers

1

2

SECTION B - Write the missing numbers

1

2

SECTION C - Write the missing numbers

1

2

SECTION A - Write the missing numbers

1

2

SECTION B - Write the missing numbers

1

2

SECTION C - Write the missing numbers

1

2

UNIT 1

COUNTING

1s, 2s, 5s & 10s



SECTION A - Write the missing numbers

1

0 1 3 4 6 7 8

2

35 40 45 50 65 75

SECTION B - Write the missing numbers

1

3 5 7 13 19

2

5 15 25 65

SECTION C - Write the missing numbers

1

46 51 76

2

47 57

SECTION A - Write the missing numbers

1

0 10 20 30 50 70 90

2

22 24 26 30 36 40

SECTION B - Write the missing numbers

1

89 90 91 94 97

2

23 28 33 53

SECTION C - Write the missing numbers

1

69 71 83

2

97 99

SECTION A - Write the missing numbers

1

0 2 4 8 10 14 16

2

25 26 29 31 32 33

SECTION B - Write the missing numbers

1

8 18 48 68 78

2

79 81 89 91

SECTION C - Write the missing numbers

1

57 63 65

2

66 71

SECTION A - Write the missing numbers

1

2

SECTION B - Write the missing numbers

1

2

SECTION C - Write the missing numbers

1

2

SECTION A - Write the missing numbers

1

65 60 55 50 40 30 20

2

50 48 46 40 36 34

SECTION B - Write the missing numbers

1

93 83 73 43 13

2

99 98 97 93

SECTION C - Write the missing numbers

1

103 93 88

2

98 95

SECTION A - Write the missing numbers

1

2

SECTION B - Write the missing numbers

1

2

SECTION C - Write the missing numbers

1

2

SECTION A - Write the missing numbers

1

2

SECTION B - Write the missing numbers

1

2

SECTION C - Write the missing numbers

1

2

SECTION A - Write the missing numbers

1

18 16 14 12 8 4 2

2

31 30 29 27 26 23

SECTION B - Write the missing numbers

1

45 40 30 25 10

2

93 83 73 33

SECTION C - Write the missing numbers

1

21 17 15

2

77 76

UNIT 1

COUNTING

MORE



SECTION A

1

1 more than 3 is

2

1 more than 2 is

3

1 more than 14 is

4

1 more than 19 is

SECTION B

1

1 more than 30 is

2

1 more than 35 is

3

1 more than 42 is

4

1 more than 48 is

SECTION C

1

1 more than 99 is

2

1 more than 84 is

3

10 more than 0 is

4

10 more than 30 is

5

1 more than 103 is

6

10 more than 71 is

SECTION A

1

1 more than 5 is

2

1 more than 0 is

3

1 more than 13 is

4

1 more than 16 is

SECTION B

1

1 more than 21 is

2

1 more than 47 is

3

1 more than 34 is

4

1 more than 22 is

SECTION C

1

1 more than 90 is

2

1 more than 68 is

3

10 more than 80 is

4

10 more than 20 is

5

1 more than 109 is

6

10 more than 48 is

SECTION A

1

1 more than 10 is

2

1 more than 1 is

3

1 more than 18 is

4

1 more than 7 is

SECTION B

1

1 more than 32 is

2

1 more than 46 is

3

1 more than 49 is

4

1 more than 24 is

SECTION C

1

1 more than 53 is

2

1 more than 65 is

3

10 more than 70 is

4

10 more than 10 is

5

1 more than 100 is

6

10 more than 15 is

SECTION A

1

1 more than 9 is

2

1 more than 15 is

3

1 more than 11 is

4

1 more than 4 is

SECTION B

1

1 more than 28 is

2

1 more than 36 is

3

1 more than 33 is

4

1 more than 40 is

SECTION C

1

1 more than 92 is

2

1 more than 87 is

3

10 more than 60 is

4

10 more than 40 is

5

1 more than 105 is

6

10 more than 87 is

SECTION A

1

1 more than 6 is

2

1 more than 12 is

3

1 more than 17 is

4

1 more than 8 is

SECTION B

1

1 more than 20 is

2

1 more than 31 is

3

1 more than 39 is

4

1 more than 44 is

SECTION C

1

1 more than 85 is

2

1 more than 70 is

3

10 more than 50 is

4

10 more than 90 is

5

1 more than 107 is

6

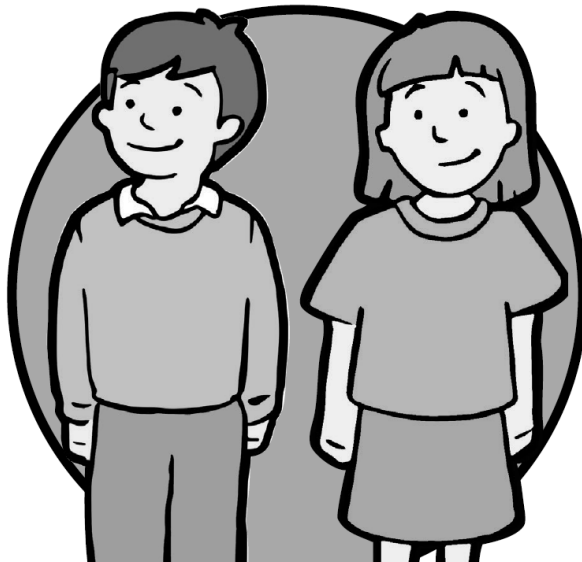
10 more than 2 is

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**Mastering the
Arithmetic Curriculum**

Year 1

Part 1



ANSWERS

Answers

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1) 59, 58, 57, 54, 52, 51, 50

2) 0, 1, 2, 3, 4, 5, 7, 9

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1) 16, 20, 22, 28, 32

2) 83, 85, 87, 91, 93, 99

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1) 64, 68, 70, 72, 76, 78, 80

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1) 24, 30, 38 2) 2, 4, 10, 16

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1) 84, 86, 90, 94, 100

2) 37, 41, 43, 45, 51, 53

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1) 89, 91, 97, 101, 103, 105, 107

2) 40, 42, 44, 46, 48, 50, 52, 54

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1) 4, 8, 18 2) 20, 24, 26, 32

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1) 48, 50, 56, 60, 62

2) 88, 90, 92, 96, 98, 100

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1) 89, 91, 93, 97, 101, 103, 105

2) 20, 22, 24, 26, 28, 30, 32, 36

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1) 48, 40, 34 2) 16, 8, 6, 0

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1) 41, 39, 33, 31, 25

2) 100, 96, 92, 90, 88, 84

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1) 58, 56, 54, 52, 50, 46, 44

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1) 44, 40, 30 2) 26, 20, 18, 12

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