

Series E – Whole Numbers and Place Value

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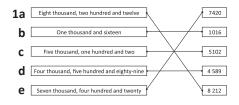
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Series Author:

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Series E – Whole Numbers and Place Value

Pages 1-2



- 2a Ellie
- **b** Libby
- c Mish
- 3987 three thousand, nine hundred and eighty-seven thirty-eight 38
 - 11 eleven
 - six 6
 - 3 three
 - 5 five
 - 4 four
- 4a nine hundred and forty-four
- **b** five hundred and twenty-nine
- c six hundred and ninety-three
- d six thousand, nine hundred and seventy-eight

Pages 3-4

- 1a 1092; 1094
- **b** 6528; 6530
- 2a (261
- 909 **b** (
- 1024
- 5078
- 3a 2033; 2303; 3203
- **b** 6066; 6606; 6660
- 4a 4651; 4561; 4156
- **b** 7981; 7891; 7356

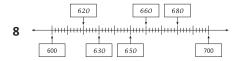
	515	516				
5a	525	526	527	528		
Ja			537	538	539	540
					549	550

	863	864	865
b	873	874	875
	883	884	885

	986	987	988
С	996	997	998
	1006	1007	1008

- **6a** 10s
- **b** Top to bottom 120, 220, 230; 240, 340, 440, 540;
 - 250;
 - 570;
 - 480, 580, 680;
 - 590

7a-c Answers will vary.



Pages 5-6

- 1a >
- b =
- c <
- d >
- e >
- f <
- 2a-d Answers will vary.
- 3a-d Answers will vary.
- 4a >; <
- **b** <; <
- c <; <
- **d** >; >
- 5a Answers will vary.
- **b** 9874
- c Answers will vary.
- d Answers will vary.

- 58 6
- **7** 7,234

Page 7

- 1a 16 000; 13 000; 11 000
- **b** 10 702; 11 702; 13 702
- c 23 314; 21 314; 20 314

2a 3405 4 405 5405	5405
---------------------------	------



36 737 37 737 38 737

49 050 50 050 51 050

4830 6830 8830 3a

424 2424 4424

86 888 88 88 90 888

67 464 69 464 71 464

Page 8

- 1a 250; 325; 400
- **b** 900; 850; 800; 725
- c 3000; 3050; 4000

50 75 100 2a

275 300 325 b

1000 1025 975

24 025 24 000 24 050

£1.00 £0.75 £1.25 **3**a

£32.50 £32.75 £33.00 b

£199.50 £199.75 £200.00

£6052.00 £6052.25 £6051.75

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Page 9

1a 1; 0; −1

b £0; –£1; –£2

c -1°C; 0°C; 1°C

d 5; 0; –5

e 2; 0; -2

2a −1

b -5

c -2°C

Page 10

1a VI

b XX

c XV

d LIII

e XLVI

f LXIV

g LXXXVIII

h XIX

i XXXVII

2a 13

b 4

c 32

d 20

e 90

f 71

g 69

h 34

i 86

Page 11

What to do

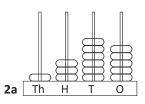
Observe students.

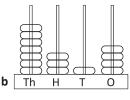
Pages 12-13

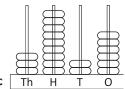
1a 8155

b 3715

c 6323







3a 23(3)0

b 432(2)

c 92)18

d 566(1)

e 87(5)4

f 6845

4 Answers will vary.

5 Answers will vary.

6a 8439 – 30 = 8409

b 8409 – 9 = 8400

c 8400 – 8000 = 400

d 400 - 400 = 0

7 Answers will vary.

See if you and your partner can get as low as a 3 digit number without either player getting out.

Pages 14-15

1a 1; 3; 8;4

b 9,251

c 4; 0; 7; 5

d 2036

2 5239; 52 hundreds, 3 tens and 9 ones

6142; 6000 + 100 + 40 + 2

3000 + 100 + 80; 8

3506; 3000 + 500 + 6

8258; 82 hundreds, 5 tens and 8 ones

3a 41 hundreds

b 98 hundreds

c 67 hundreds

d 45 hundreds

4a 556 tens

b 888 tens

c 457 tens

c 457 tens

d 897 tens

5a 3292

b 4612

c 8672

d 4107

6a 5; 19

b 8; 3

Pages 16-17

1a 4601

b 2000

c 6310

d 2060

e 10 900

2 a	82 Eight thousand and ninety-two	8 092
b	Two hundred and seventy	270
С	892 Eight hundred and two	802
d	27 Six thousand, seven hundred and seven	6 707
е	677 Five thousand and seventy	5 070

3a – 60

b + 7

c - 700

d + 3 (or more)

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Pages 16-17

4a 8710; 1780

b 8710; 7810; or 1870; 1780

c 8710

d 1870

e Sample answers: 8017 or 8107 or 8170

5a 1 5 6 7

b 9 3 3 8

c 9 7 2 5

d 1 1 9 6

Page 18

What to do

Observe students.

Page 19

What to do

Observe students.

What to do next

Observe students.

Pages 20-21

1a 200

b 400

c 400

2 200

3 670, 700, 1000

290, 300, 0

530, 500, 1000

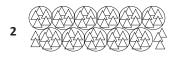
970, 1000, 1000

4 <u>F O R T Y</u>

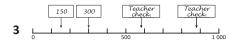
T H O U S A N D

Pages 22-23





60



4a, b Answers will vary.

5a 10; 30

b Work out how many cupfuls in a box.

Multiply the number of sultanas in a cupful by the number of cupfuls.

Pages 24-25

pencil set

1a £2

b £6

c £9

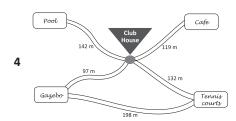
2 No; Yes; No

3a 140

b 340

c 170

d 780



Page 26

What to do

Observe students.

Page 27

What to do

Observe students.

Write each number in words:

a 6	209	
------------	-----	--

2 Order this list of numbers from smallest to largest:

9382

9832

8126

7277

7727

3 Order this list of numbers from largest to smallest:

6987

6889

8765

7987

9098

4 Use the correct < or > symbol to connect these numbers:

a 246

4	19
---	----

b 954

	899
--	-----

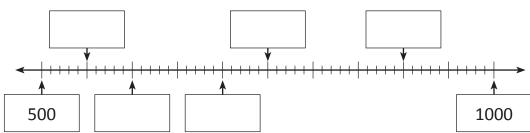
c 8964

17

1746 **d** 6876

8765

5 Look carefully at this number line and write the missing numbers:



Skills	Not yet	Kind of	Got it
Reads, writes and represents numbers up to four digits			
Orders whole numbers up to four digits			
Correctly uses greater than and less than symbols			

6 Continue these number sequences:

a	75		125	150			225
---	----	--	-----	-----	--	--	-----

Write the numbers 1000 more and less:

a		1111		b		3752	
---	--	------	--	---	--	------	--

С		7034		d		30 018	
---	--	------	--	---	--	--------	--

8 Solve these problems involving negative numbers:

a	What number is 5 more than –4?	
---	--------------------------------	--

9 Convert these number between Hindu-Arabic and Roman numbers:

а	XXII	b 16	С	100	
	'		•		

	 _		
d LIX	e XIV	f 65	

Skills	Not yet	Kind of	Got it
Counts in 25s			
Counts in 1000s and can ind a number 1000 more or less			
Understands negative numbers and can count back through zero			
Reads and writes Roman numerals to 100			

- 1 Write the value of the digit that is underlined:

 - **a** 23<u>6</u>9 **b** <u>1</u>028 **c** 9<u>8</u>26
 - **d** 9275 _____ **e** 9384 ____ **f** 2679 ____

Complete this table to show place value:

Numeral	Expanded notation in numbers	Expanded notation in words
4672	4000 + 600 + 70 + 2	46 hundreds, 7 tens and 2 ones
	7000 + 400 + 80 + 3	
		65 hundreds, 1 ten and 5 ones
		46 hundreds and 14 ones

Use these digits to make the following 4-digit numbers:

	9	
l.		

2	

	_
\cap	
U	

a A number with 7 in the hundreds place.

b Two numbers with 0 in the ones place.

c Two numbers that have 72 tens.

		_	

d A number that has 29 tens.

e A number that has zero as a place holder.

Skills	Not yet	Kind of	Got it
Identifies the place value of digits in a 4-digit number			
Uses expanded notation to record three and 4-digit numbers			

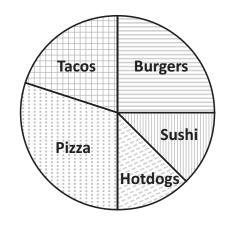
Complete this table to show how these numbers round. The first one has been done for you.

Number	Nearest 10	Nearest 100	Nearest 1000
673	670	700	1000
1,872			
982			
198			
789			

2 Round each number and add. Shade the most reasonable answer for each sum:

This pie chart shows the favourite foods of a group of 64 people. Estimate how many people chose pizza.

- a Number of people who chose pizza:
- **b** Explain how you made your estimate.



Skills	Not yet	Kind of	Got it
Rounds numbers to the nearest ten and hundred			
Estimates the number of items by grouping			

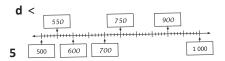
Series E – Whole Numbers and Place Value – Student Progress Record Name_____ Class____ Date _____ What went well: What I need to improve: Series E – Whole Numbers and Place Value – Student Progress Record Name_____ Class____ Date_____ What went well: What I need to improve:

Series E - Whole Numbers and Place Value

ASSESSMENT ANSWERS

Pages 4-5

- **1a** six thousand, two hundred and nine
- **b** one thousand, four hundred and sixty-seven
- **c** eight thousand and twenty-six
- **d** nine thousand, eight hundred and seventy-two
- **2** 7277; 7727; 8126; 9382; 9832
- **3** 9098; 8765; 7987; 6987; 6889
- 4a <
- b >
- c >



- 6a 100; 175; 200
- **b** 1000; 975; 900

29 018

 7a
 111
 1111
 2111

 b
 2752
 3752
 4752

 c
 6034
 7034
 8034

30 018

31 018

8a 1

d

- **b** -4
- **c** 3°C
- **9a** 22
- **b** XVI
- **c** C
- **d** 59
- **e** 14
- f LXV

Page 6

- **1a** 60
- **b** 1000

- 1c 800
- **d** 9000
- **e** 300
- **f** 9
- **2** 7483; 74 hundreds, 8 tens and 3 ones

6515; 6000 + 500 + 10 + 5

4614; 4000 + 600 + 10 + 4

- **3a** Answers will vary. Sample answer: 9720
- **b** 7920; 9720
- c 9720; 72
- **d** 7290
- e 7092, or 7902, or 7920

Page 7

- 1 1870; 1900; 2000
 - 980; 1000; 1000
 - 200; 200; 0
 - 790; 800; 1000
- **2**a 150
 - **b** 380
 - c 340
- d 2300
- 3a About 18
- **b** Answers will vary.

Series E – Whole Numbers and Place Value

Topic	Reference	Strand	Substrand	Objective
Whole Numbers	4N1	Number	Number and place value	Count in multiples of 6, 7, 9, 25 and 1,000.
Whole Numbers	4N2a	Number	Number and place value	Order and compare numbers beyond 1,000.
Whole Numbers	4N2b	Number	Number and place value	Find 1,000 more or less than a given number.
Whole Numbers	4N3b	Number	Number and place value	Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.
Whole Numbers	4N5	Number	Number and place value	Count backwards through zero to include negative numbers.
Place Value	4N3a	Number	Number and place value	Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens, and ones).
Place Value	4N4a	Number	Number and place value	Identify, represent and estimate numbers using different representations.
Round and Estimate	4N4a	Number	Number and place value	Identify, represent and estimate numbers using different representations.
Round and Estimate	4N4b	Number	Number and place value	Round any number to the nearest 10, 100 or 1,000.
All	4N6	Number	Number and place value	Solve number and practical problems that involve all of the above and with increasingly large positive numbers.