

Whole Numbers and Place Value



Series D – Whole Numbers and Place Value

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Series Author:

Nicola Herringer

Series D – Whole Numbers and Place Value

Pages 1–2

- 1a 848 → nine hundred and ninety-three
 b 327 → eight hundred and forty-eight
 c 901 → three hundred and twenty-seven
 d 993 → nine hundred and one

2a–c Answers will vary.

3a 621

b 380

4a T

b F

c F

d F

e F

f T

5

1	4	6	2	8	2	3	9	4	2	5
	8		6		5	7	3	2		
6	3	1	4	7	4		8	6	0	6
	6		9	4	10	3		9		
		11	6		12	5	2	13	9	
14	1	3		15	6	4	6	16	3	
17	6	9	3		18	5	2	4		

Pages 3–4

1

221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270

2a

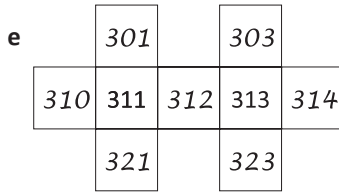
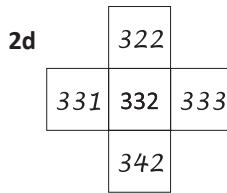
361	362	363
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b

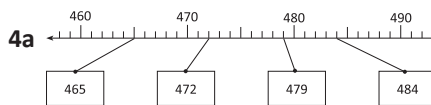
377	378	379
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c

341
351
361



3 352; 1t351; 251



b 625; 690; 745

5a 220 g; 420 g; 110 g

b 140 g; 825 g; 400 g

Pages 5–6

1a <

b >

c <

d <

e >

f <

g >

h <

2a X

b ✓

c ✓

d ✓

e X

f ✓

3a, b Answers will vary.

4a–c Answers will vary.

d 125

e 852

f Answers will vary.

5a 106

b 993

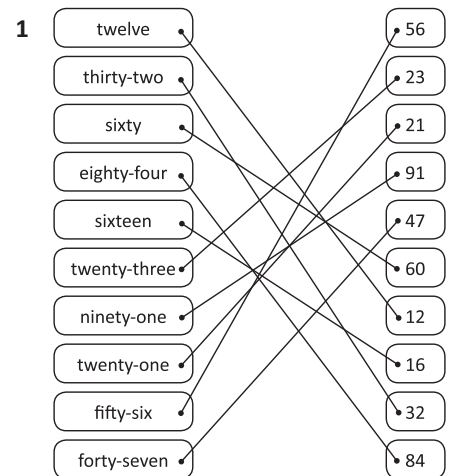
c 406

d 993

e 406

f 406

Page 7



2a thirteen

b seventy-seven

c thirty-one

d twenty-nine

e forty-eight

f ninety-two

Pages 8–9

1

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29

2a 0, 2, 4, 6, or 8

b 1, 3, 5, 7, or 9

3a, b Answers will vary.

4a, b Answers will vary.

5a–c Answers will vary.

6a even

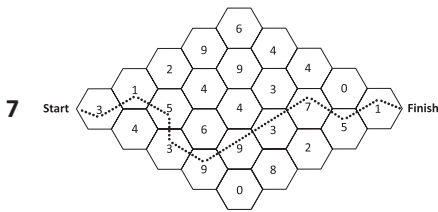
b odd

c even

Series D – Whole Numbers and Place Value

Pages 8–9

- 6d even + even = even
 odd + odd = even
 even + odd = odd



8 Observe students.

Page 10

What to do:

Observe students.

Page 11

What to do:

Observe students.

What to do next:

Observe students.

Page 12

1a 300

b 800

c 500

2a 600

b 500

c 300

Page 13

1a 200

b 350

c 400

2a 450

b 350

Page 14

1a 40

b 66

c 91

d 49

e 134

1f 157

g 362

h 898

2a 80

b 62

c 44

d 56

e 129

f 233

g 677

h 434

3a 105

b 191

4a, b Answers will vary.

Page 15

1a

400

 500

600

b

267

 367

467

c

666

 766

866

d

505

 605

705

e

718

 818

918

f

11

 111

211

2a 221

b false

c 846

d true

3a 1095

b 1907

c Answers will vary.

Pages 16–17

1	Thousands	Hundreds	Tens	Ones	
	5	4	3	2	★
	5	3	4	3	★
	4	5	2	4	◆
	4	3	8	8	▲

Five thousand, four hundred and thirty-two ★

4 524

 ◆

Four thousand, five hundred and twenty-four ◆

5 432

 ★

Five thousand, three hundred and forty-three ★

4 388

 ▲

Four thousand, three hundred and eighty-eight ▲

5 343

 *

2a 3425

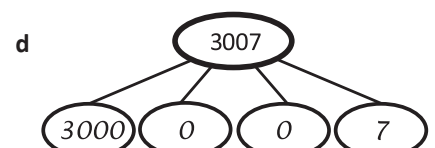
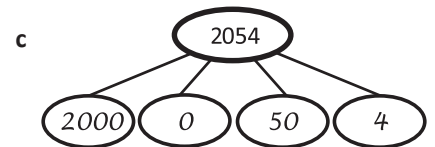
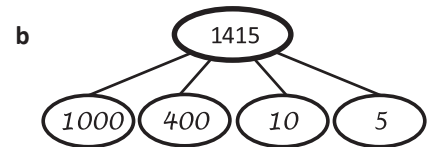
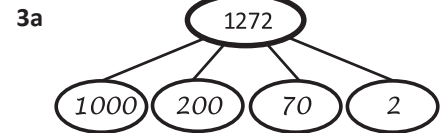
b 4125

c 7123

d 4876

e 6612

f 9127

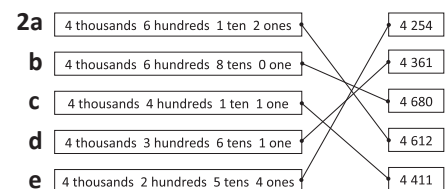


Pages 18–19

1a 1000; 300;
1300

b 1000; 500; 10;
1510

c 1000; 200; 40;
1240



3 15;
157;
1576

Series D – Whole Numbers and Place Value

Pages 18–19

- 1a

1000

500

60

7

- b

2000

500

60

7

- c

300

700

60

7

- d

7000

600

20

4

- e 2567

- 5 678; 67 tens and 8 ones
714; $700 + 10 + 4$
 $6000 + 700 + 3$; 3
4606; $4000 + 600 + 6$
 $2,000 + 10 + 8$

Page 20

- 1a 2; 1; 3; 9
b 4000; 20; 300; 0
c true; true; false; false
d 0; 8; 5; 6

Pages 21–22

- 1a 241
b 324
c 366
- 2a 266
b 100
c 4
d 8
- 3a 783
b 1,600
c 700

Page 23

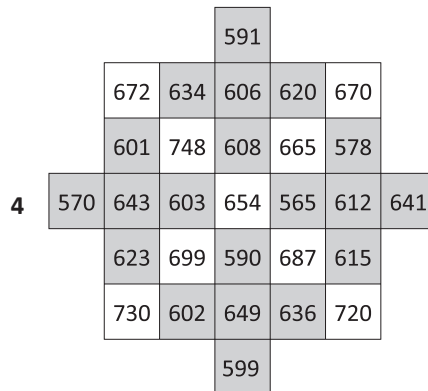
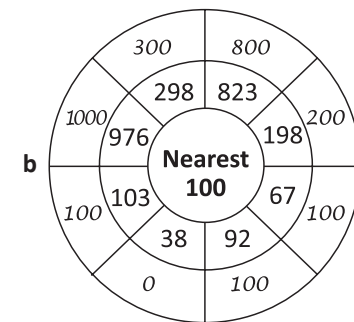
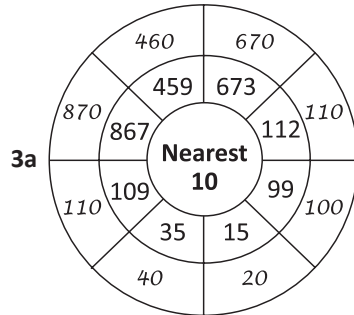
What to do:
Observe students.

Page 24

What to do:
Observe students.

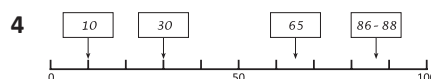
Pages 25–26

- 1a 40
b 10
c 50
- 2a 200
b 500

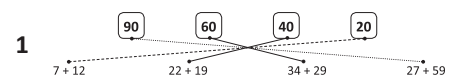


Pages 27–28

- 1a 32
b 40
c 42
- 2 2
- 3a–c Answers will vary.



Pages 29–30



- 2a No
b No
c Yes
d No
e Yes
- 3a 86
b 148
c 165
d 810
- 4 $300 + 100 = 400$
 $400 + 200 = 600$
 $100 + 800 = 900$
 $300 + 200 = 500$
 $100 + 300 = 400$
 $400 + 400 = 800$
- 5a $100 \times £10 = £1000$
b $£600 + £200 + £100 = £900$
c $£20 \times 10 = £200$
d $5 \times 7 = 35$ km

Page 31

What to do:
Observe students.

Page 32

What to do:
Observe students.

What to do next:
Observe students.

1 Write these numbers:

a one thousand, two hundred and eighty-three

b three thousand and fourteen

c two thousand, six hundred and twenty-two

2 Write each number in words:

a 2459 _____

b 4018 _____

c 6021 _____

3 Order this list of numbers from smallest to largest:

5476

567

5467

4567

6879

4 Order this list of numbers from largest to smallest:

526

2456

2168

4567

1278

5 Use the correct sign < or > to connect these numbers:

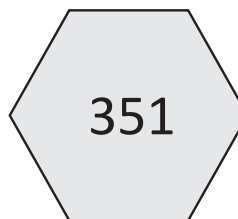
a 164 146

b 966 969

c 458 485

d 622 628

6 Write the new numbers:



one more

one thousand more

one hundred less

Skills	Not yet	Kind of	Got it
• Reads, writes and represents numbers up to 4 digits			
• Orders whole numbers up to 4 digits			
• Correctly uses greater than and less than symbols			

1 Complete the following number sequences:

a 300 500 600 900 1000

b 1900 2000 2300

c 4600 4500 4400 4000

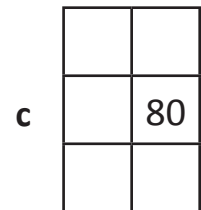
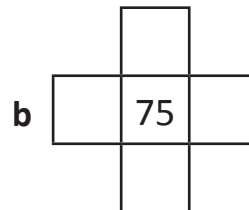
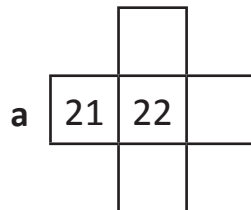
2 Complete the missing numbers:

a 0 50 150 300 350

b 850 700 650 550 500

c 350 400 500 550 650

3 Complete the partial 100 squares:



4 Complete the number sentences:

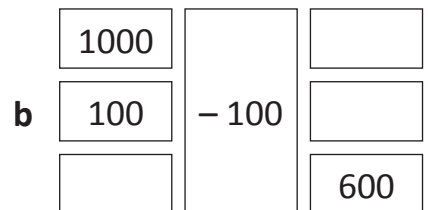
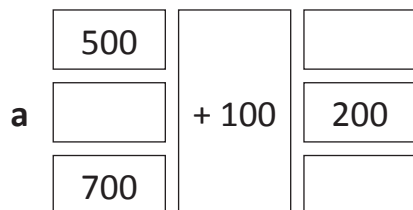
a $45 + 10 = \square$

b $53 - 10 = \square$

c $78 + \square = 88$

d $29 - \square = 19$

5 Complete the missing numbers:

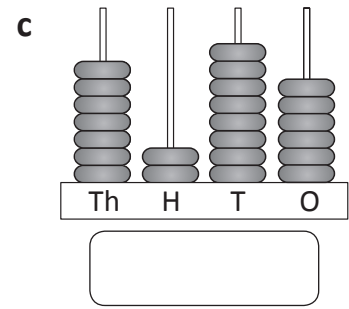
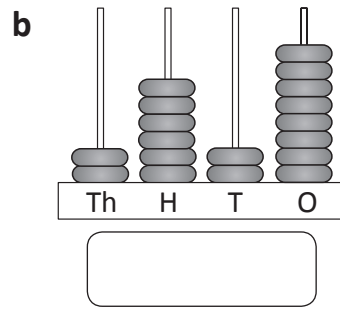
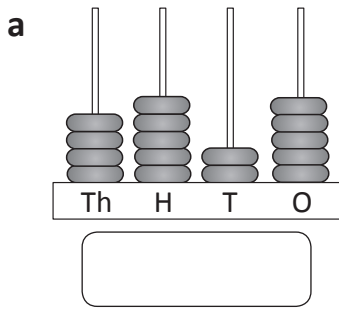


Skills	Not yet	Kind of	Got it
• Counts in 100s.			
• Counts in 50s.			
• Finds 10 more and 10 less than a given number.			
• Finds 100 more and 100 less than a given number.			

Place value of whole numbers

Name _____

1 Write the number shown on each abacus:



2 Complete this table. The first one has been done for you.

	Numeral	Expanded notation in numbers	Expanded notation in words
a	592	$500 + 90 + 2$	5 hundreds, 9 tens and 2 ones
b		$600 + 70 + 8$	
c			7 hundreds, 1 ten and 4 ones
d	6783		6 thousands, 7 hundreds, 8 tens and ___ ones

3 Write these numbers:

a 3 thousands and 20 tens _____ b 5 thousands and 14 ones _____

c 7 thousands and 10 hundreds _____ d 8 thousands and 14 hundreds _____

4 Write the value of the digit that is underlined:

a 5987 _____ b 9267 _____ c 8245 _____

d 6218 _____ e 3915 _____ f 8245 _____

Skills	Not yet	Kind of	Got it
• Identifies the place value of digits in a 4-digit number			
• Uses expanded notation to record 3- and 4-digit numbers			

Round and estimate

Name _____

1 Round these numbers to the nearest 10:

- a 67 _____ b 52 _____ c 578 _____
 d 677 _____ e 1452 _____ f 1653 _____

2 Round these numbers to the nearest 100:

- a 234 _____ b 498 _____ c 687 _____
 d 1876 _____ e 2890 _____ f 8122 _____

3 Colour the closest estimate in each addition:

- a $83 + 49 =$
- b $98 + 71 =$
- c $114 + 38 =$
- d $820 + 62 =$

4 Estimate the number of faces below without counting each one:

- a Estimated total:
- 

b Explain how you estimated:

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

Series D – Whole Numbers and Place Value – Student Progress Record

Name _____ Class _____ Date _____

What went well: _____

What I need to improve: _____



Series D – Whole Numbers and Place Value – Student Progress Record

Name _____ Class _____ Date _____

What went well: _____

What I need to improve: _____

Series D – Whole Numbers and Place Value

ASSESSMENT ANSWERS

Page 4

- 1a 1283
b 3014
c 2622

- 2a two thousand, four hundred and fifty-nine
b four thousand and eighteen
c six thousand and twenty-one

3 567; 4567; 5467; 4476; 6879

4 4567; 2456; 2168; 1278; 526

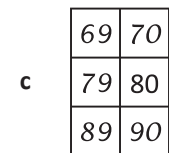
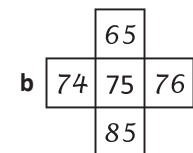
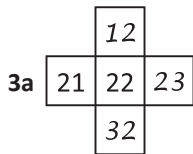
Page 5

- 1a 400; 700; 800
b 1700; 1800; 2100; 2200; 2400
c 4700; 4300; 4200; 4100

2a 100; 200; 250

b 800; 750; 600

c 300; 450; 600

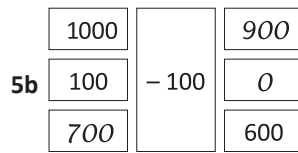
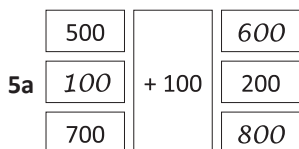


4a 55

b 43

c 10

d 10



Page 6

- 1a 4525
b 2628
c 7286

2b 678; 6 hundreds, 7 tens and 8 ones

c 714; $700 + 10 + 4$

d $6000 + 700 + 80 + 3$; 3

3a 3200

b 5014

c 8000

d 9400

4a 80

b 9000

c 200

d 6000

e 900

f 5

Page 7

1a 70

b 50

c 580

d 680

e 1450

f 1650

2a 200

b 500

c 700

d 1900

e 2900

f 8100

3a 133

b 170

c 150

d 880

4a 56

b Answers will vary.

Series D – Whole Numbers and Place Value

Topic	Reference	Strand	Substrand	Objective
Whole Numbers	3N2a	Number	Number and place value	Compare and order numbers up to 1,000; read and write numbers up to 1,000 in numerals and in words.
Place Value	3N3	Number	Number and place value	Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones).
Round and Estimate	3N4	Number	Number and place value	Identify, represent and estimate numbers using different representations.
Counting	3N1b	Number	Number and place value	Count from 0 in multiples of 4, 8, 50 and 100.
Counting	3N2b	Number	Number and place value	Find 10 or 100 more or less than a given number.
All	3N6	Number	Number and place value	Solve number problems and practical problems involving these ideas.