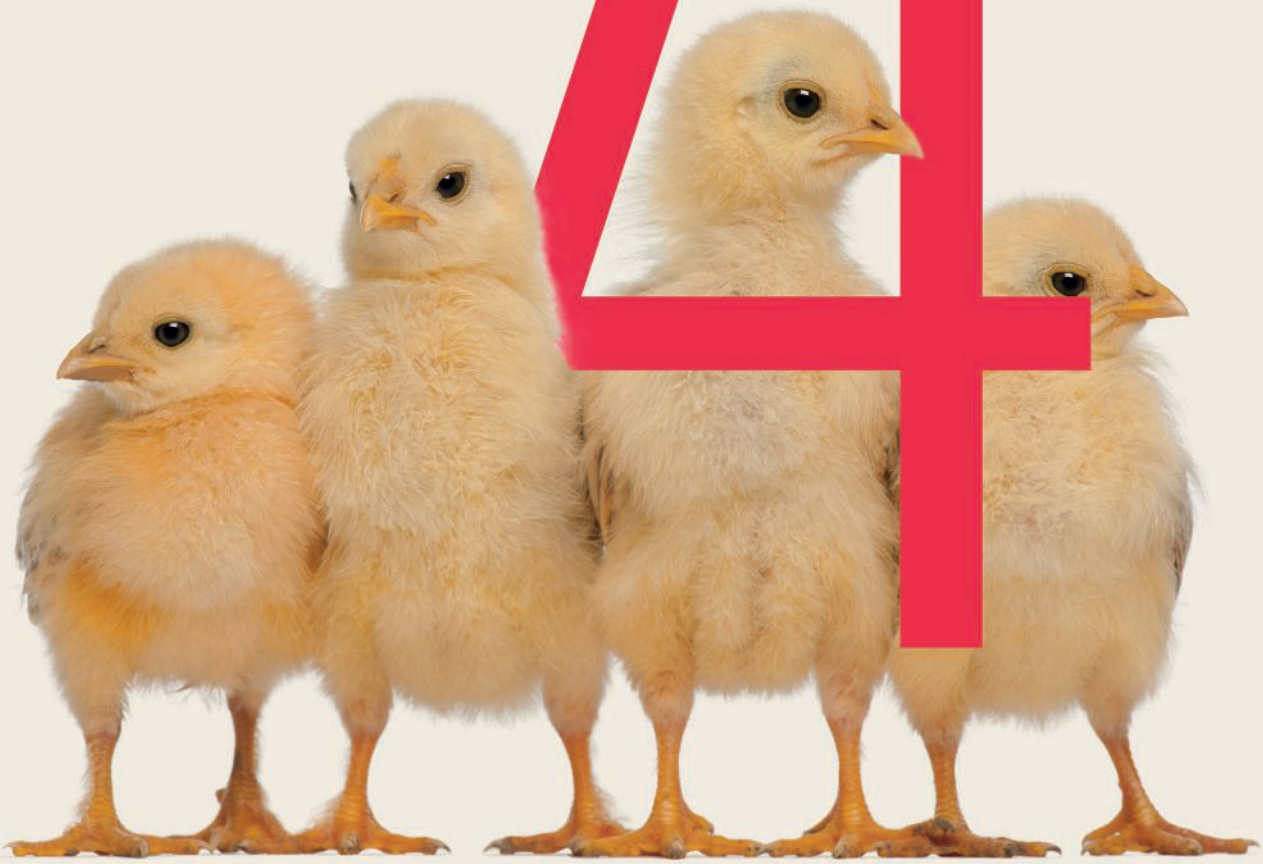
Student Book PYP

Oxford **Mathematics**

Primary Years Programme

4



Annie Facchinetti

OXFORD

Oxford **Mathematics**

Primary Years Programme

4

Contents

NUMBER, PATTERN AND FUNCTION

MEASUREMENT, SHAPE AND SPACE

DATA HANDLING

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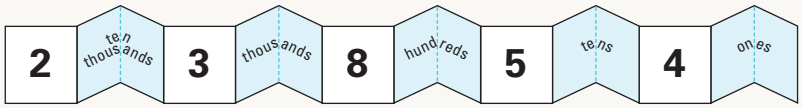

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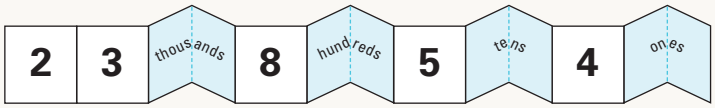

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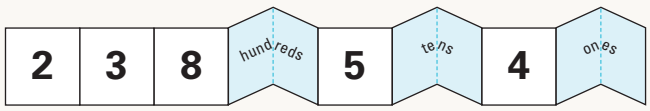

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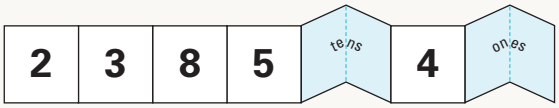

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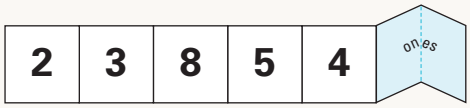
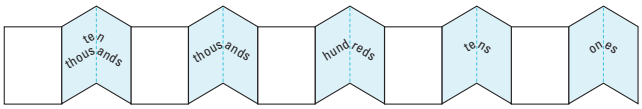
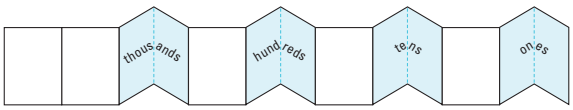


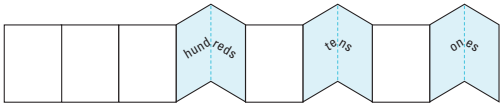
Guided practice

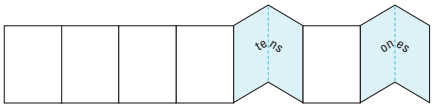
1 Show these numbers on the number expanders.

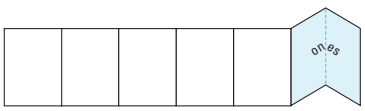
a 34 926



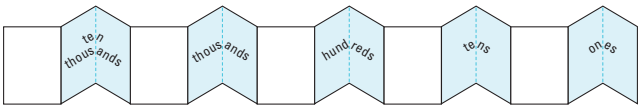


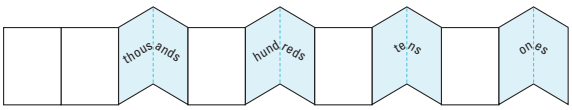


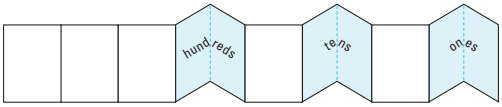


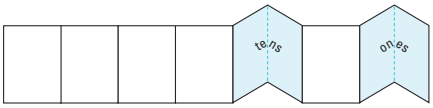


b 97 563





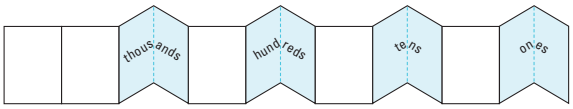


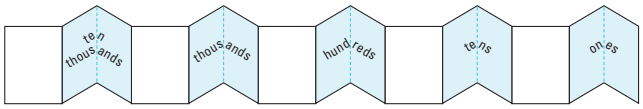


Independent practice

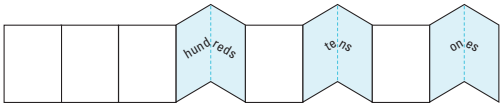
1 Write these numbers on the expanders.

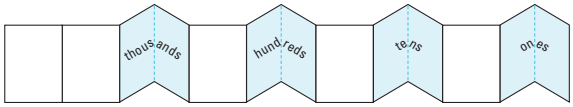
a 17 329



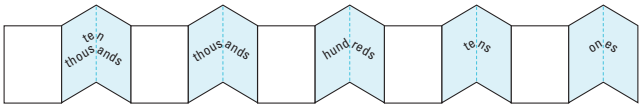


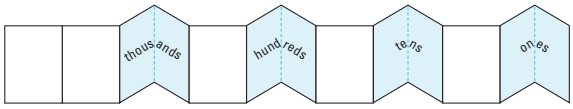
b 80 154



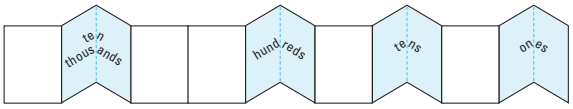


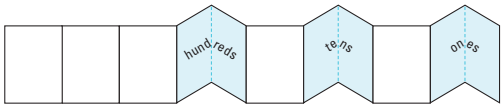
c 64 078



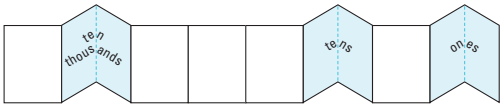


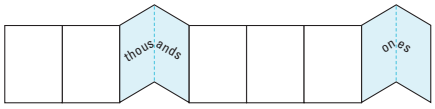
d 49 461





e 28 935





2 Expand each number by place value.

a 51 345 = 50 000 + 1000 + 300 + 40 + 5

b 40 772 = ☐ + ☐ + ☐ + ☐

c 87 024 = ☐ + ☐ + ☐ + ☐

d 17 316 = ☐ + ☐ + ☐ + ☐ + ☐

e 92 603 = ☐ + ☐ + ☐ + ☐

f 55 555 = ☐ + ☐ + ☐ + ☐ + ☐

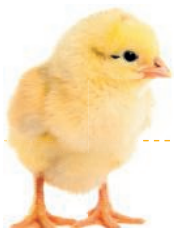
3 Rewrite from smallest to largest.

WORLD COLLECTION RECORDS

Collection number	Description	Number of items
1	Pairs of earrings	37 706
2	"Do not disturb" signs	11 570
3	Smart phones	1563
4	Dinosaur eggs	10 008
5	Rat and mouse memorabilia	47 398
6	Number plates	11 345
7	Toenail clippings	24 999
8	Magazines	50 953
9	Key chains	47 200
10	Olympic postage stamps	15 183

Collection number	Number of items

How can you tell if one number is larger than another?



4 Write these numbers in words.

a 56 927 _____

b 80 401 _____

c 42 058 _____

5 Write the numerals for these numbers.

a Sixty-eight thousand, one hundred and forty-two _____

b Twenty-four thousand and seventy _____

c Ninety thousand and three _____

Extended practice

1 Round up or down to the nearest 10.

a 73 ____ **b** 28 ____ **c** 1364 _____ **d** 62 147 _____

2 Round up or down to the nearest 100.

a 591 _____ **b** 1603 _____ **c** 21 977 _____

3 Round up or down to the nearest 1000.

a 6099 _____ **b** 24 270 _____ **c** 93 804 _____

4 Round up or down to the nearest 10 000.

a 19 878 _____ **b** 41 997 _____ **c** 83 025 _____

5 Round up or down to the nearest 100 000.

a 498 531 _____ **b** 628 197 _____ **c** 240 799 _____

6 Write the numerals for:

a 1 hundred thousand, 4 ten thousands, 44 hundreds and 2 tens.

_____

b 120 hundreds and 81 ones. _____

c 61 thousands, 45 tens and 8 ones. _____

d 402 thousands, 32 tens and 5 ones. _____

e 49 thousands and 6 ones. _____

7 Rewrite the numbers from question 6 from smallest to largest.

_____

The last digit of a number tells us if it is odd or even.

23 657 is **odd**

because 7 is odd.

47 924 is **even**

because 4 is even.

Guided practice

1 Circle the last digit in each number, then write if it is odd or even.

a	573	_____	**b**	914	_____
c	1390	_____	**d**	8056	_____
e	23 474	_____	**f**	42 689	_____
g	95 005	_____	**h**	75 000	_____
i	10 101	_____	**j**	42 867	_____
k	57 838	_____	**l**	75 383	_____

2 If you added 1 to each number in question 1, would each one be odd or even?

a	_____	**b**	_____	**c**	_____
d	_____	**e**	_____	**f**	_____
g	_____	**h**	_____	**i**	_____
j	_____	**k**	_____	**l**	_____

Independent practice

1 7 2 6 3 5

Use these digits to make:

a the largest odd number possible. _____

b the smallest odd number possible. _____

c the largest even number possible. _____

d the smallest even number possible. _____

2 9 0 8 0 1

Use these digits to make:

a the largest even number possible. _____

b the largest odd number possible. _____

c the smallest even number possible. _____

d the smallest odd number possible. _____

3 4 5 0 6 7

Use these digits to make:

a the largest odd number with 7 in the tens place.

_____

b the smallest even number with 0 in the thousands place.

_____

c the largest even number with 5 in the ten thousands place.

_____

d the smallest odd number with 4 in the hundreds place.

_____

4 If you add an even number to an even number, the answer is always even. Fill in the other addition and subtraction rules.

Example	Operation	Answer
4 + 4 = 8	even + even	even
4 + 5 = 9	even + odd	
5 + 4 = 9	odd + even	
5 + 5 = 10	odd + odd	
8 – 2 = 6	even – even	
8 – 3 = 5	even – odd	
9 – 4 = 5	odd – even	
9 – 3 = 6	odd – odd	

5 If you multiply an even number by an even number, the answer is always even. Fill in the other multiplication rules.

Example	Operation	Answer
2 × 2 = 4	even × even	even
2 × 3 = 6	even × _____	
5 × 2 = 10	_____ × _____	
5 × 3 = 15	_____ × _____	

6 Write whether the answer will be odd or even.

a 23 + 72 _____

b 456 – 97 _____

c 768 + 310 _____

d 803 – 549 _____

e 1765 + 9261 _____

f 8639 – 6223 _____

g 48 × 72 _____

h 83 × 46 _____

You can use these rules to help check if your calculations are correct.

Extended practice

Can you think of any examples that don't fit these rules?

1 Solve the equations, then decide if the statements are true or false.

a ☐ ÷ 2 = 14 ☐ ÷ 2 = 17 ☐ ÷ 2 = 50

Only even numbers can be divided exactly by 2. True | False

b ☐ ÷ 3 = 5 ☐ ÷ 3 = 10 ☐ ÷ 3 = 100

Only odd numbers can be divided exactly by 3. True | False

c ☐ ÷ 4 = 10 ☐ ÷ 4 = 4 ☐ ÷ 4 = 9

Only even numbers can be divided exactly by 4. True | False

2 Use your knowledge of odd and even numbers to sort these larger numbers.

Odd	Even

34 176 62 849
123 456 987 654
520 399 471 002
1 098 765 4 342 998
8 888 881 7 676 767