Student Book PYP

Oxford **Mathematics**

Primary Years Programme

3

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OXFORD

Oxford **Mathematics** 3

Primary Years Programme

Contents

NUMBER, PATTERN AND FUNCTION

MEASUREMENT, SHAPE AND SPACE

DATA HANDLING

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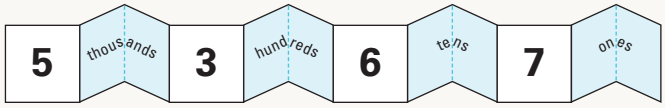
5367 is the same as:



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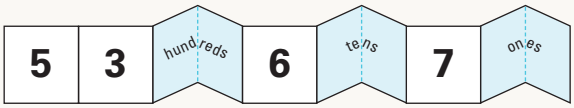

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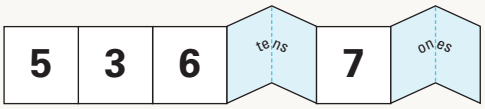

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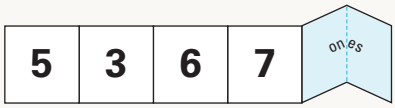
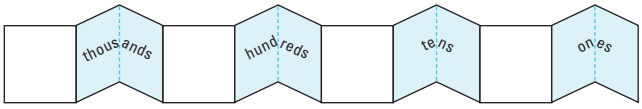


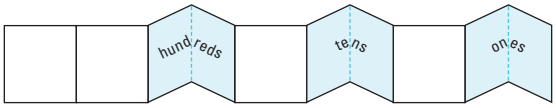
Can you think of any other ways to rename 5367?

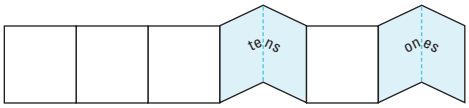
Guided practice

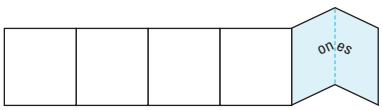
1 Show these numbers on the number expanders.

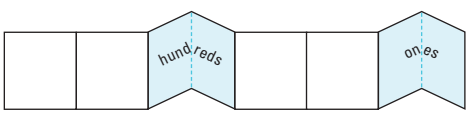
a 2431



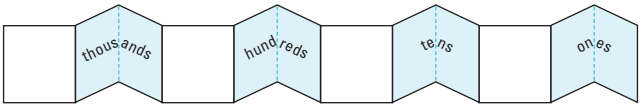


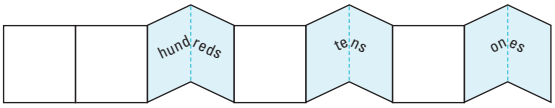


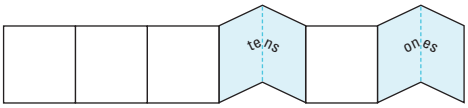


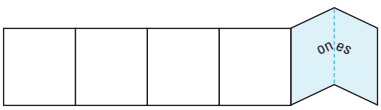


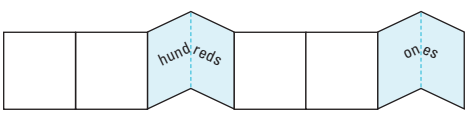
b 8276











Independent practice

Write each number:

1 in words.

a 4568 _____

_____

_____

b 8043 _____

_____

_____

c 7109 _____

_____

_____

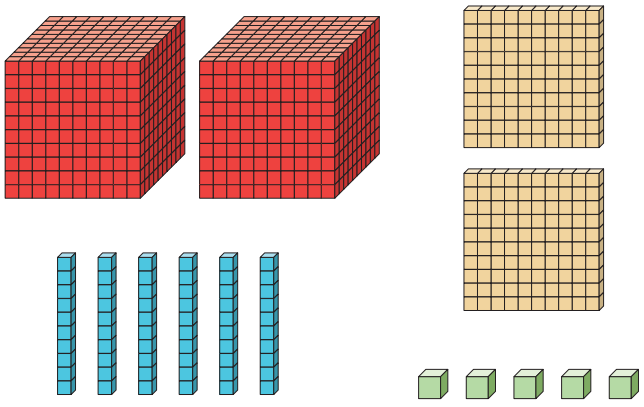
2 on the place value chart.

Th	H	T	O

How do the numbers in words connect with the place value chart?

3 How many?

a



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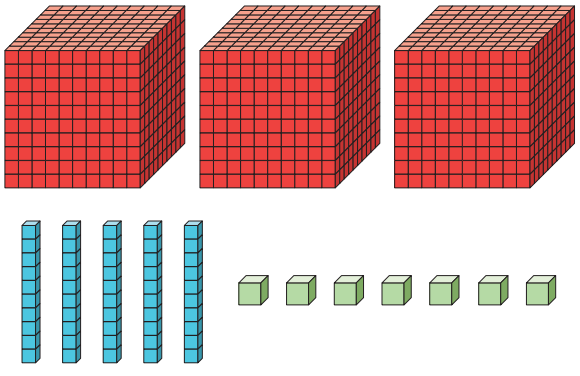


4 Rewrite the number of people in the table from largest to smallest.

WORLD PARTICIPATION RECORDS

Event number	Event	Number of people
1	Most people dressed as Smurfs	4891
2	Largest Riverdance line	1693
3	Largest Thai dance	5255
4	Largest umbrella dance	1688
5	Largest lion dance	3971
6	Largest scarecrow display	3812

Event number	Number of people

5 Make the largest number possible with 1, 7, 8 and 0.

6 Use the number from question 5 to find:

a 10 more. ☐

b 10 less. ☐

c 20 more. ☐

d 20 less. ☐

e 100 more. ☐

f 100 less. ☐

g 200 more. ☐

h 200 less. ☐

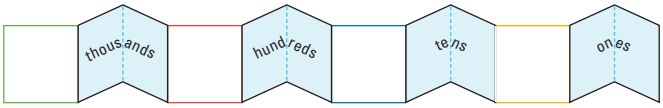
i 1000 more. ☐

j 1000 less. ☐

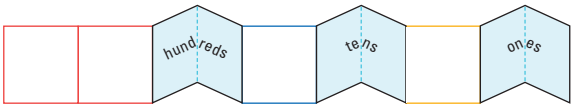
7 Make the smallest number possible with 3, 8, 2 and 3.

Extended practice

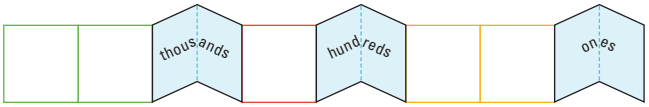
1 Write on the expander, then complete the sum.

a 3790 = 

3790 = ☐ + ☐ + ☐ + ☐

b 8052 = 

8052 = ☐ + ☐ + ☐

c 24 160 = 

24 160 = ☐ + ☐ + ☐

2 Circle the number in which:

a	4 has the greatest value.	3472	6324	4012
b	9 has the smallest value.	6889	3914	1900
c	1 has the greatest value.	5217	1024	9199
d	5 has the smallest value.	19 875	2536	6851

3 **a** Write the largest and the smallest 4-digit number possible with 7 in the tens column.

☐☐☐☐ ☐☐☐☐

b Write the largest and the smallest 4-digit number possible with 4 in the hundreds column.

☐☐☐☐ ☐☐☐☐

Even numbers can be grouped into 2s.

8

Odd numbers cannot.

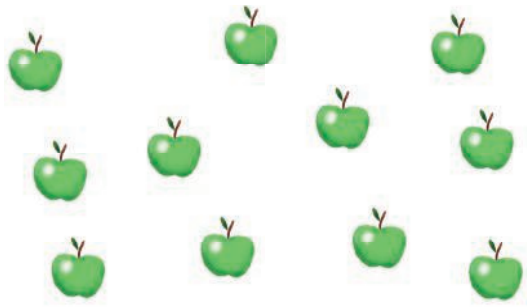
7

What is an odd number? What other meaning does the word **odd** have?

Guided practice

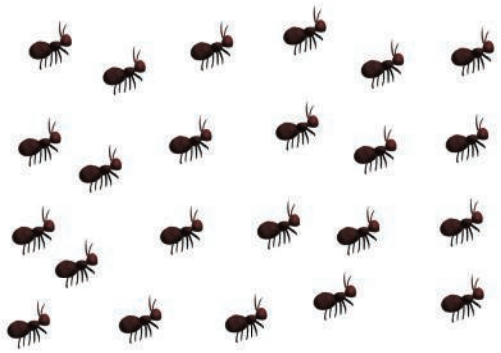
1 Circle groups of 2, and then colour if the total is odd or even.

a



Odd	Even

b

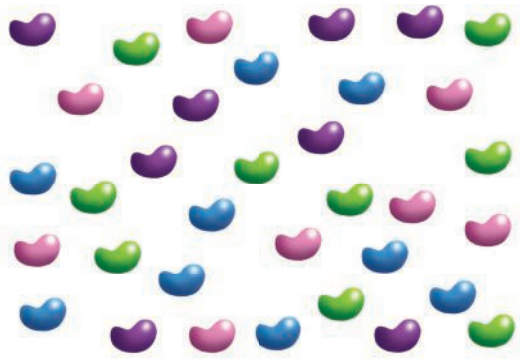


Odd	Even

c

Odd	Even

d



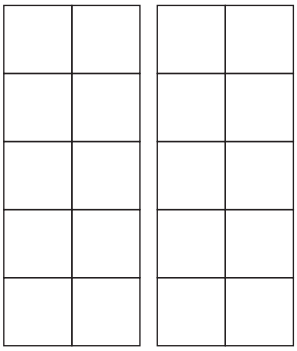
Odd	Even

Independent practice

1 Draw on the ten frames, and then choose if the numbers are odd or even.

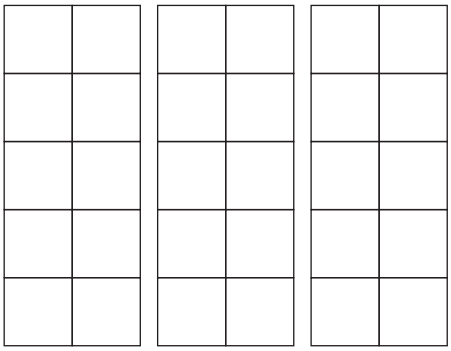
a 17

Odd
Even



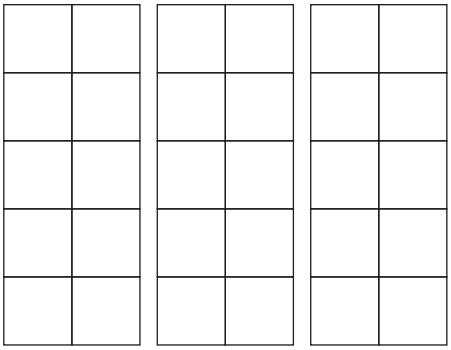
b 26

Odd
Even



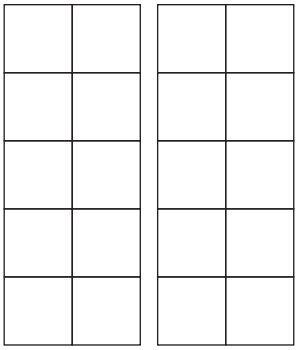
c 28

Odd
Even



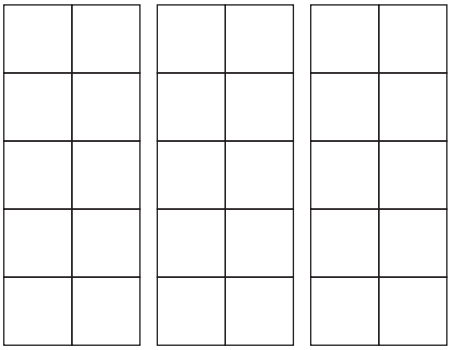
d 14

Odd
Even



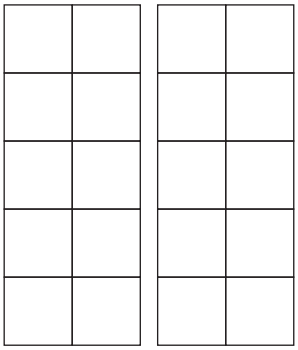
e 25

Odd
Even



f 15

Odd
Even



2 Finish the number patterns.

a Odd:

21		25	27			33		

b Even:

44	46			52			58	

c Even:

20	24	28			40			52

3

31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

a Circle all the even numbers in **red**.

b Circle all the odd numbers in **blue**.

c What digits can even numbers end in?

d What digits can odd numbers end in?

Which place value column tells you if a number is odd or even?

4 Rewrite the numbers in the correct column.

Odd	Even

76 143 258

103 575 1974

1361 3870 5002

867 9998 9999

5 Odd or even?

a The number of fingers on one hand _____

b On two hands _____

c The number of wheels on one car _____

d On two cars _____

Extended practice

1 Add the pairs of even numbers.

a 6 + 2 = ☐ **b** 14 + 10 = ☐ **c** 28 + 8 = ☐

d All the answers are: Odd | Even

2 Add the pairs of odd numbers.

a 5 + 3 = ☐ **b** 11 + 17 = ☐ **c** 21 + 9 = ☐

d All the answers are: Odd | Even

3 Add the pairs of even and odd numbers.

a 4 + 5 = ☐ **b** 12 + 15 = ☐ **c** 20 + 19 = ☐

d All the answers are: Odd | Even

4 Add the pairs of odd and even numbers.

a 5 + 6 = ☐ **b** 17 + 10 = ☐ **c** 23 + 14 = ☐

d All the answers are: Odd | Even

5 Will the answer be odd or even?

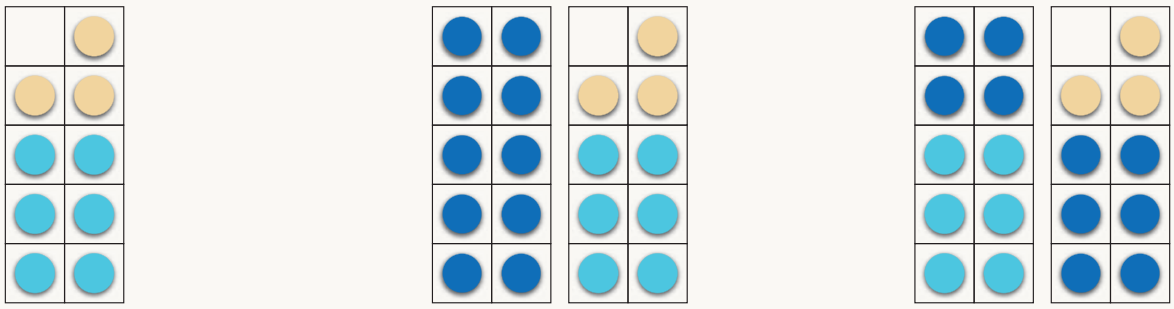
a 24 + 56 Odd | Even **b** 45 + 38 Odd | Even

c 72 + 93 Odd | Even **d** 88 + 66 Odd | Even

e 97 + 75 Odd | Even **f** 51 + 94 Odd | Even

One-digit numbers can help you add bigger numbers.

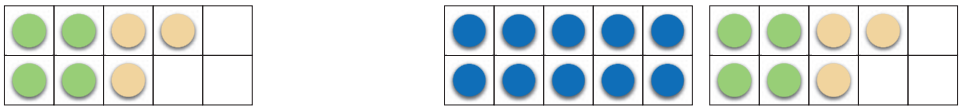
If you know:	You also know:	Or:
6 + 3 = 9	16 + 3 = 19	6 + 13 = 19



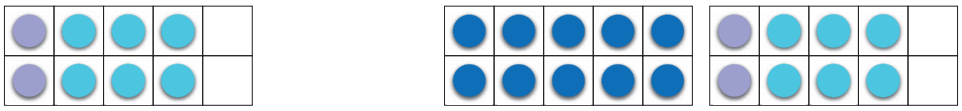
Guided practice

1 Find the answers.

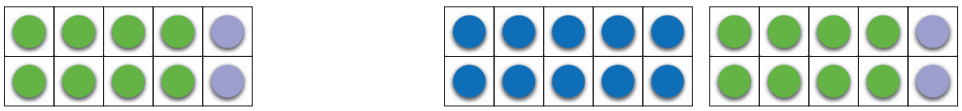
a 4 + 3 = ☐ and 14 + 3 = ☐



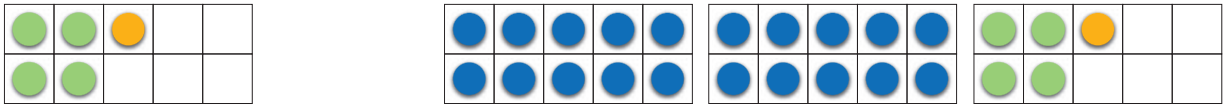
b 2 + 6 = ☐ and 12 + 6 = ☐



c 8 + 2 = ☐ and 8 + 12 = ☐



d 1 + 4 = ☐ and 21 + 4 = ☐



Independent practice

1 Extend the number facts to solve.

a 2 + 7 = ☐ and 22 + 7 = ☐

b 5 + 3 = ☐ and 5 + 13 = ☐

c 2 + 4 = ☐ and 12 + 14 = ☐

d 1 + 8 = ☐ and 31 + 8 = ☐

e 6 + 4 = ☐ and 6 + 34 = ☐

2 Use doubles facts to solve.

a If 3 + 3 = 6, then 30 + 30 = ☐.

b If 4 + 4 = ☐, then 40 + 40 = ☐.

c If 5 + 5 = ☐, then 50 + 50 = ☐.

d If 2 + 2 = ☐, then ☐ + ☐ = 40.

e If 8 + 8 = ☐, then ☐ + ☐ = 160

f If 1 + 1 = ☐, then 100 + 100 = ☐.

g If 6 + 6 = ☐, then 600 + 600 = ☐.

h If 7 + 7 = ☐, then 700 + 700 = ☐.

3 Split into 10s and 1s to add.

a 23 + 12 = 30 + 5 = ☐

b 26 + 31 = ☐ + ☐ = ☐

c 45 + 42 = ☐ + ☐ = ☐

d 34 + 55 = ☐ + ☐ = ☐

e 43 + 27 = ☐ + ☐ = ☐

When adding in your head, it's easier if you can make pairs that equal a 10.

4 Rearrange the numbers to make them easier to add.

a 6 + 7 + 4 = 6 + 4 + 7 = ☐

b 5 + 4 + 25 = ☐ + ☐ + ☐ = ☐

c 17 + 2 + 4 + 3 = ☐ + ☐ + ☐ + ☐ = ☐

d 3 + 11 + 2 + 19 = ☐ + ☐ + ☐ + ☐ = ☐

5 Solve using a mental addition strategy of your choice.

a 90 + 90 = ☐

b 46 + 52 = ☐

c 4 + 37 = ☐

d 17 + 8 + 3 + 12 = ☐

e 21 + 68 = ☐

f 500 + 500 = ☐

g 61 + 17 = ☐

h 14 + 30 + 6 = ☐

Extended practice

The table below shows how many people went on each ride at an amusement park in a one-hour period.

Ride	Roller coaster	Carousel	Big slide	Haunted house	Ferris wheel	Tea cups	Giant drop	Dodgem cars
Number of people	23	8	7	54	135	12	39	221

1 Write the numbers in the easiest adding order to find how many people went on:

a the carousel, big slide and tea cups. ☐ + ☐ + ☐ = ☐

b the big slide, tea cups and roller coaster. ☐ + ☐ + ☐ = ☐

c the carousel, dodgem cars and giant drop. ☐ + ☐ + ☐ = ☐

2 Add in your head to find how many people went on:

a the haunted house and the giant drop. ☐ + ☐ = ☐

b the dodgem cars and the roller coaster. ☐ + ☐ = ☐

c the Ferris wheel and the haunted house. ☐ + ☐ = ☐

d the dodgem cars and the Ferris wheel. ☐ + ☐ = ☐

e the roller coaster, the carousel, the tea cups and the big slide. ☐ + ☐ + ☐ + ☐ = ☐