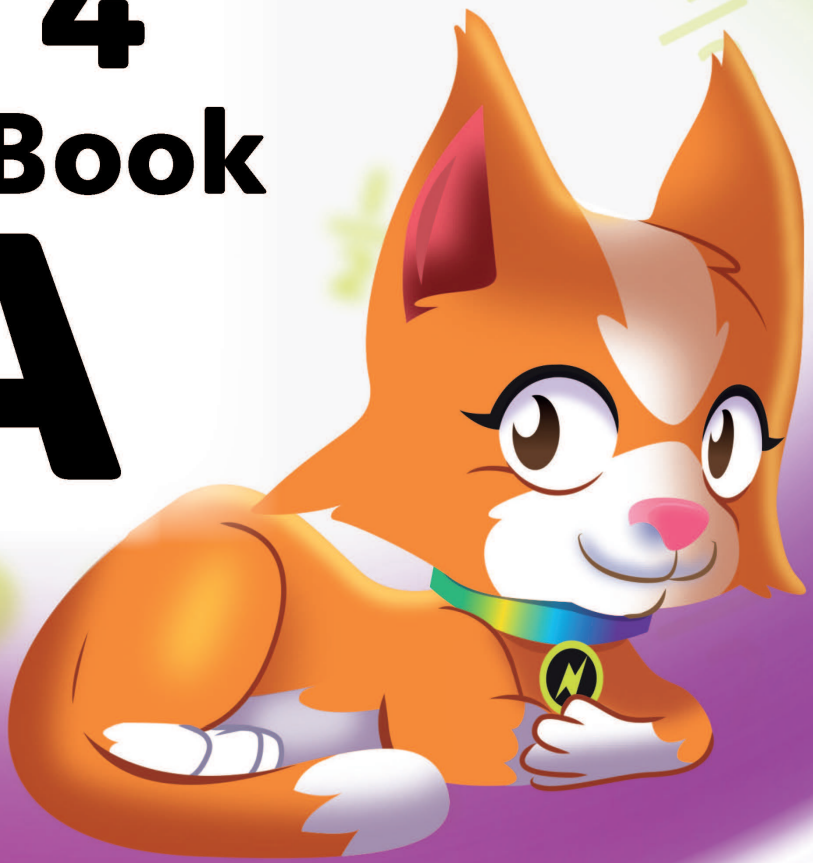
POWER MATHS

White Rose Maths

White Rose Maths Edition

Year 4
Practice Book
4A



Pearson

Series Editor: Tony Staneff

Year 4 Practice Book 4A

White Rose Maths Edition

What did you do in maths in Year 3?

Draw or write what you enjoyed doing most.

This book belongs to _____ .

My class is _____ .

Series editor: Tony Staneff

Lead author: Josh Lury

Consultants (first edition): Professor Liu Jian and Professor Zhang Dan

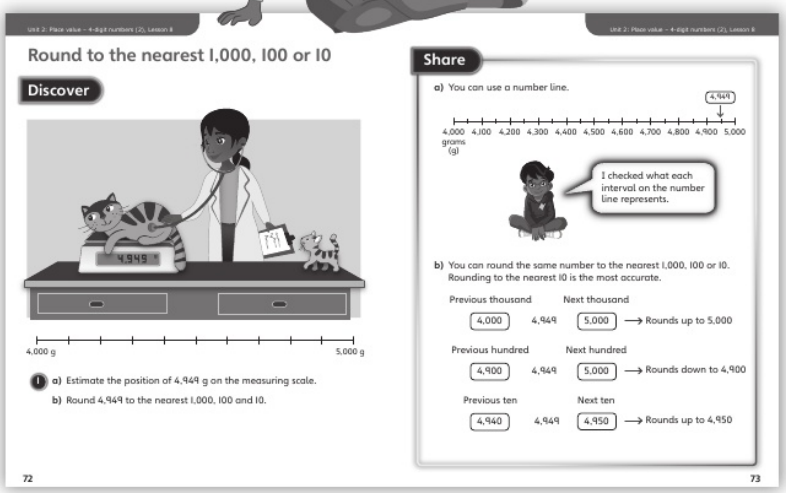
Author team (first edition): Tony Staneff, Josh Lury, Neil Jarrett, Stephen Monaghan, Beth Smith and Paul Wrangles

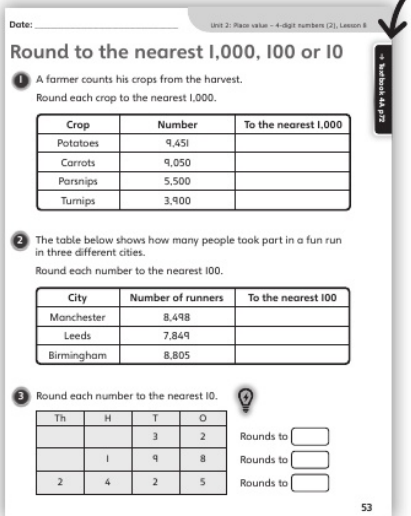
Pearson

Contents

How to use this book

Use the **Textbook** first to learn how to solve this type of problem.





This shows you which **Textbook** page you need.

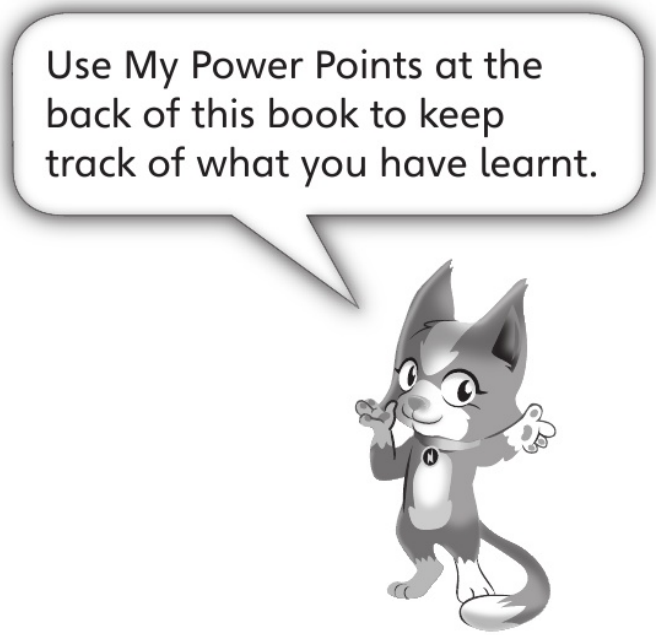
Have a go at questions by yourself using this **Practice Book**. Use what you have learnt.

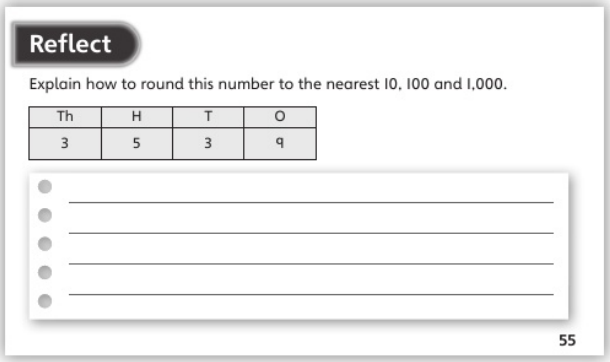
Challenge questions make you think hard!

Questions with this light bulb make you think differently.

Reflect

Each lesson ends with a Reflect question so you can think about what you have learnt.





Reflect

Explain how to round this number to the nearest 10, 100 and 1,000.

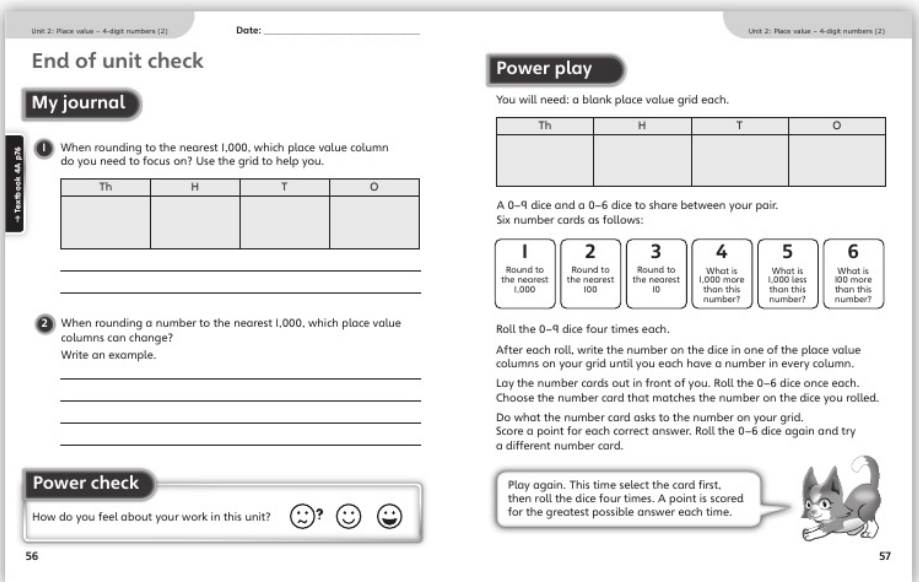
Th	H	T	O
3	5	3	9

55

My journal

At the end of a unit your teacher will ask you to fill in My journal.

This will help you show how much you can do now that you have finished the unit.



Unit 2: Place value – 4-digit numbers (2) Date: _____

Unit 2: Place value – 4-digit numbers (2)

End of unit check

My journal

→ Textbook 4A, p26

1. When rounding to the nearest 1,000, which place value column do you need to focus on? Use the grid to help you.

Th	H	T	O

2. When rounding a number to the nearest 1,000, which place value columns can change?
Write an example.

Power check

How do you feel about your work in this unit?

56

Power play

You will need: a blank place value grid each.

Th	H	T	O

A 0–9 dice and a 0–6 dice to share between your pair.
Six number cards as follows:

1	2	3	4	5	6
Round to the nearest 1,000	Round to the nearest 100	Round to the nearest 10	What is 1,000 more than this number?	What is 1,000 less than this number?	What is 100 more than this number?

Roll the 0–9 dice four times each.

After each roll, write the number on the dice in one of the place value columns on your grid until you each have a number in every column.

Lay the number cards out in front of you. Roll the 0–6 dice once each. Choose the number card that matches the number on the dice you rolled.

Do what the number card asks to the number on your grid.
Score a point for each correct answer. Roll the 0–6 dice again and try a different number card.

Play again. This time select the card first, then roll the dice four times. A point is scored for the greatest possible answer each time.

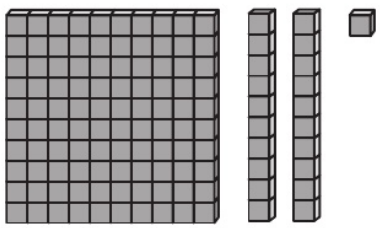
57

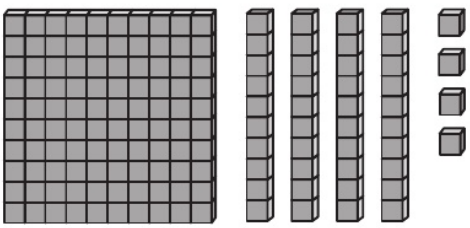
Date: _____

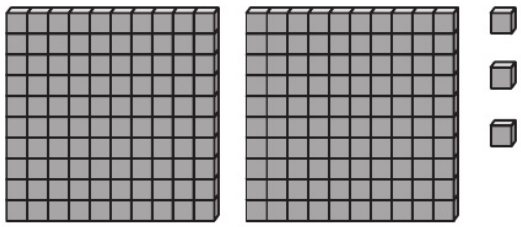
→ Textbook 4A p8

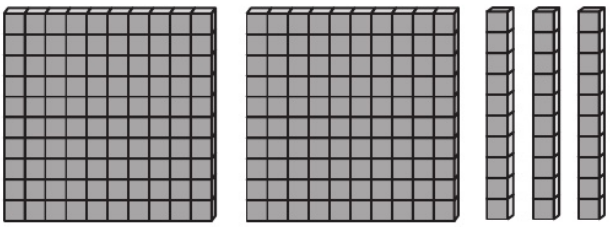
Represent and partition numbers to 1,000

1 Write each number.

a) 

c) 

b) 

d) 

2 Draw or make each number.

a) 135

b) 315

c) 351

3 Circle the correct value of each underlined digit.

a) 3<u>2</u>5 [2 hundreds] [2 tens] [2 ones]

b) <u>2</u>05 [2 hundreds] [2 tens] [2 ones]

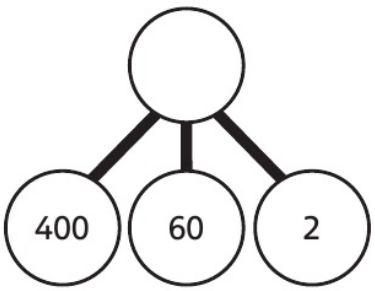
c) 20<u>2</u> [2 hundreds] [2 tens] [2 ones]

4 Partition the numbers.

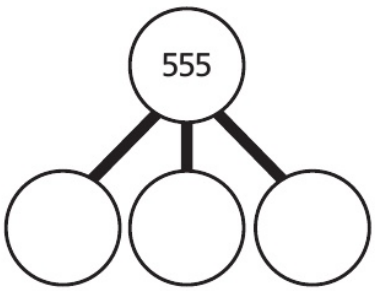
a) 892 = ☐ hundreds ☐ tens and ☐ ones

b) 705 = ☐ hundreds ☐ tens and ☐ ones

5 Complete the part-whole models and number sentences.



☐ = 400 + 60 + 2



555 = ☐ + ☐ + ☐

6 Complete the additions.

a) ☐ = 400 + 50 + 2

b) ☐ = 3 + 70 + 900

c) ☐ = 300 + 20

d) ☐ = 800 + 7

e) ☐ = 3 + 600

f) ☐ = 90 + 700

g) 864 = 800 + ☐ + 4

h) 936 = 6 + 30 + ☐

i) 573 = 500 + 3 + ☐

j) 771 = 70 + 1 + ☐

CHALLENGE

7 You can make 212 using 5 counters.

H	T	O
●●	●	●●

a) List all the numbers you can make using exactly 5 counters.

b) Can you be sure you have found them all?
Investigate the same puzzle using 6 counters.

Reflect

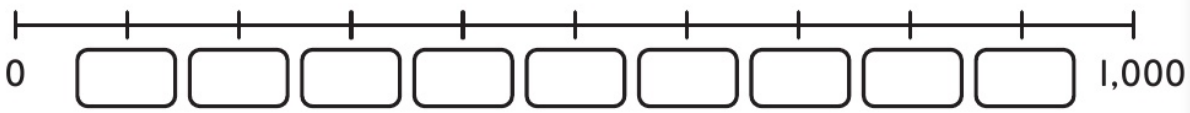
List all the 3-digit numbers that have 6 ones and 2 hundreds.

→ Textbook 4A p12

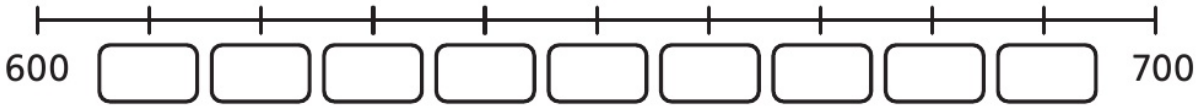
Number line to 1,000

1 Write the missing numbers.

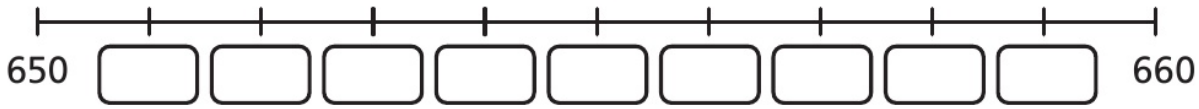
a)



b)



c)



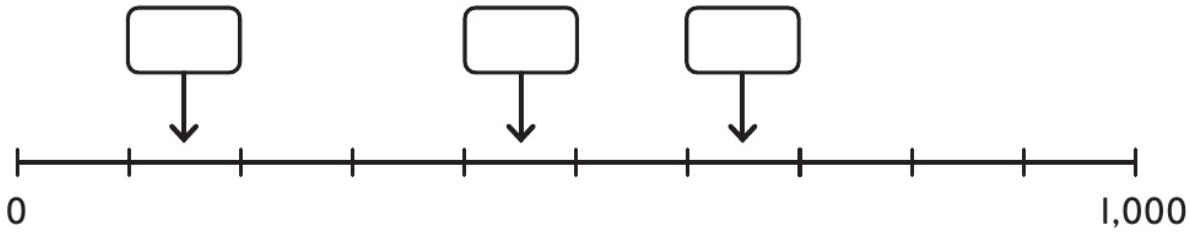
2 Join each number to the correct place.

a)

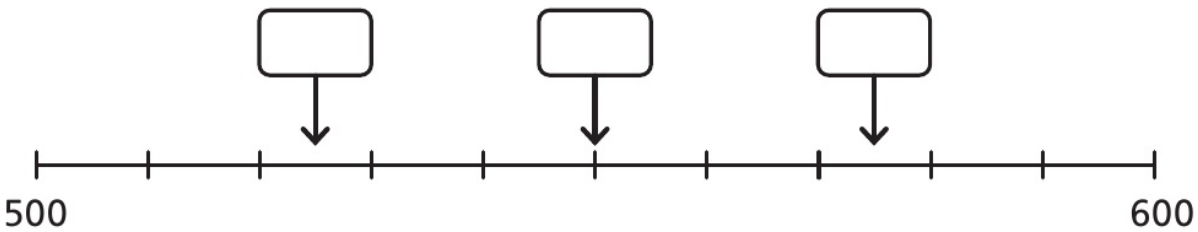
b)

3 Write the numbers shown.

a)

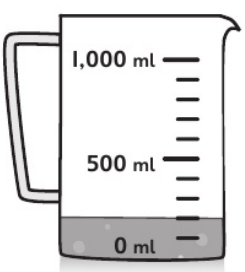


b)

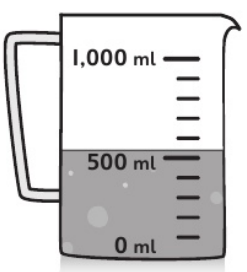


4 Estimate how much is in each jug.

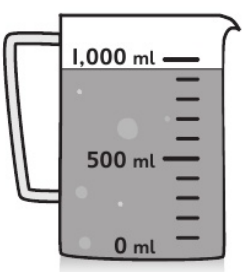
a) ☐ ml



c) ☐ ml



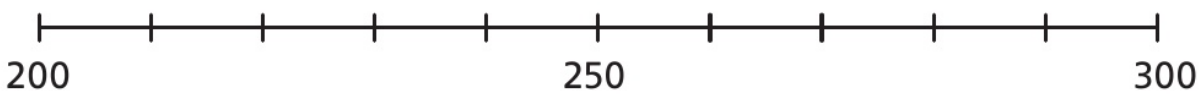
b) ☐ ml



d) ☐ ml

5 Estimate the position of each number on the number line.

229 215 249 271 285



6 Draw a number line from 0 to 1,000.

Estimate the position of the numbers on your number line.

CHALLENGE

24 **475** **725** **999**

Reflect

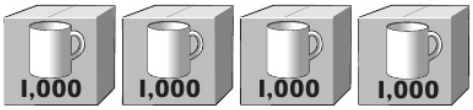
What number is in the middle of a number line?

Date: _____

→ Textbook 4A p16

Multiples of 1,000

1 **a)** Count the cups.



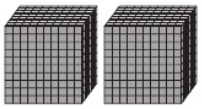
There are ☐ cups.

b) Count the cups.

There are ☐ cups.

2 Write these multiples of 1,000.

a)



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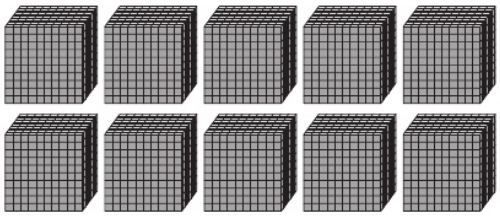
b)



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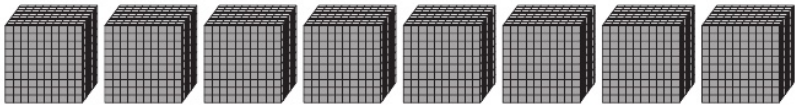
c)



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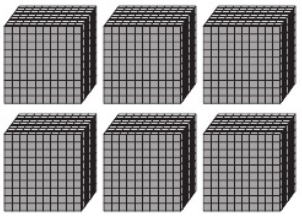
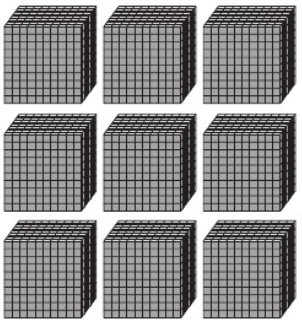
d)



☐

e)



☐

3 Complete the number tracks.

a)

2,000	3,000			6,000		8,000

b)

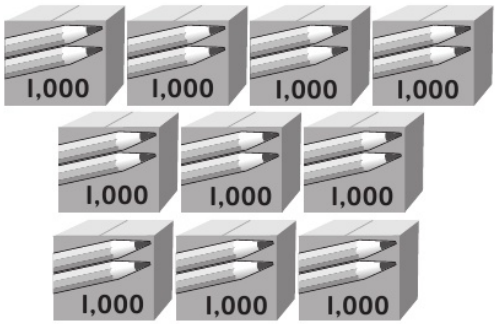
10,000	9,000			6,000		4,000

4 Find all the multiples of 1,000.

6	0	1	7	0	4	0	6	0	0	5	7	0	0	0	5
4	0	0	7	0	0	4	0	0	1	5	6	0	8	0	0
0	2	0	7	3	0	4	0	3	0	0	7	4	0	6	4
0	5	8	2	2	8	9	0	0	5	4	0	0	1	4	0
8	0	1	0	0	3	4	5	0	8	3	8	2	7	0	6
0	0	4	0	6	0	8	5	4	5	0	1	0	3	0	0
1	9	7	8	9	3	0	1	5	0	0	2	4	0	0	5
1	0	3	0	0	9	0	5	0	0	0	4	2	3	6	0
0	3	0	5	4	1	0	2	8	4	7	9	0	0	8	6
0	9	5	0	0	5	6	0	0	7	0	1	0	0	0	0

5 2,000 of these pencils are red and 5,000 are blue. The rest are green.

Show how you can work out how many green pencils there are.



CHALLENGE

6 Circle the correct answers.

a) 1 thousand is equal to:

10 ones 10 tens 10 hundreds 100 hundreds

b) 3 thousands is equal to:

30 tens 30 hundreds 300 ones 3, 000 ones

c) 50 hundreds is equal to:

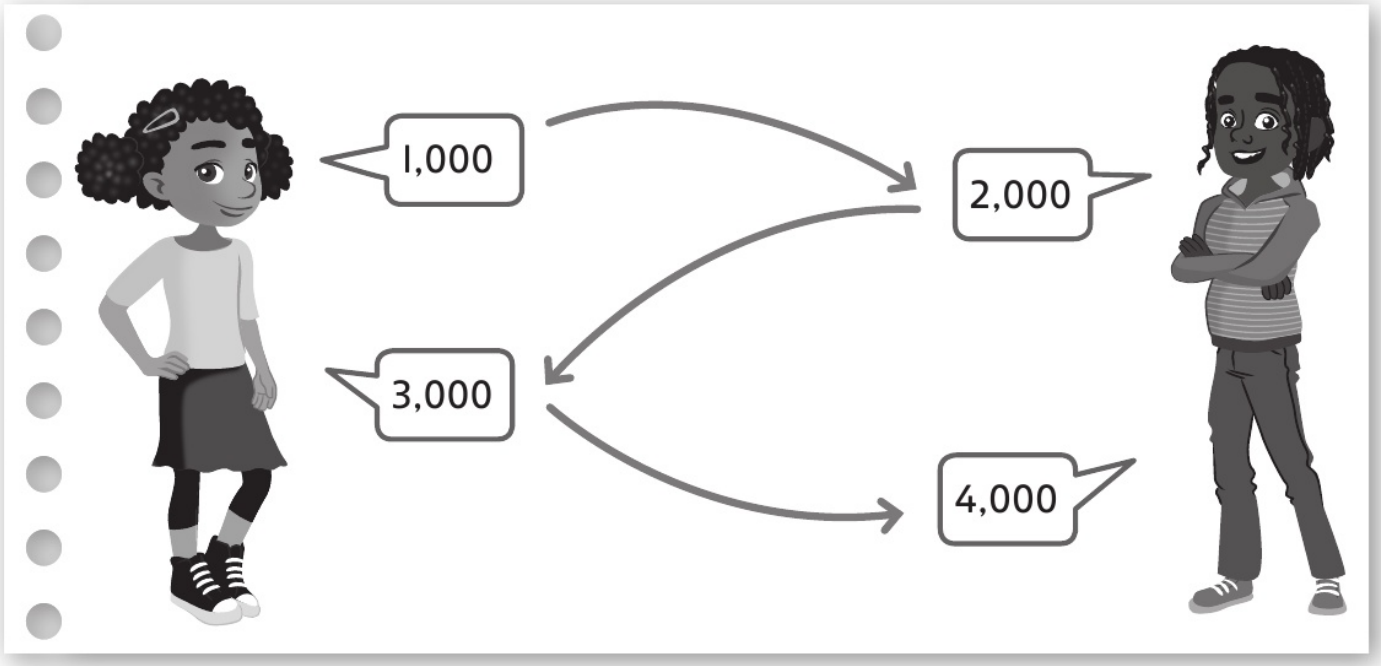
5 tens 50 hundreds 5 thousands 500 ones

d) 700 tens is equal to:

70 ones 7 hundreds 7 thousands 700 ones

Reflect

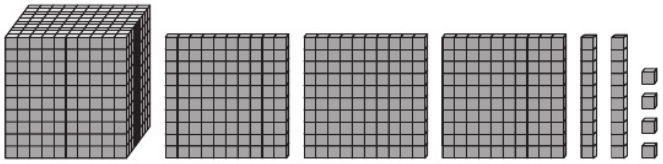
Play a 'Count in 1,000s' game with a partner.



→ Textbook 4A p20

4-digit numbers

1 Match the pairs.



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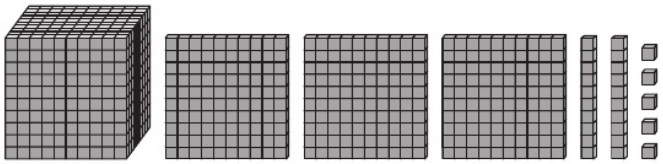
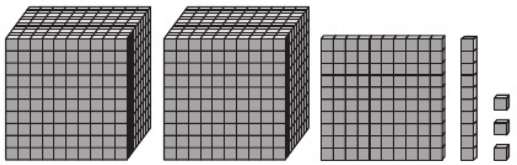


2,133



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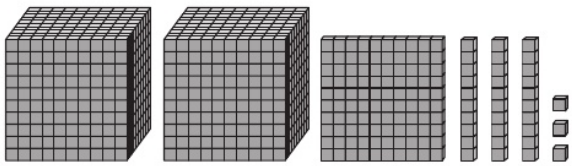

2,113

2 Write each number.

a)

Th	H	T	O
1,000 1,000	100 100	10 10 10	1

b)

Th	H	T	O
1,000 1,000	100 100 100	10 10	1 1

c)

Th	H	T	O
1,000 1,000 1,000 1,000	100 100 100	10 10 10 10	

d)

Th	H	T	O
1,000 1,000	100		1 1 1 1