POWER MATHS

White Rose Maths

White Rose Maths Edition

Year 5
Practice Book
5A

Pearson

Series Editor: Tony Staneff

Year 5 Practice Book 5A

Did you use any maths in real life during the summer?

Draw or write what you did.

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, Kate Henshall, Wei Huinv, Steph King, Stephanie Kirk, Timothy Weal and Paul Wrangles

Pearson

Contents

Unit 1 – Place value within 1,000,000 (1)	**6**
Roman numerals	6
Numbers to 10,000	9
Numbers to 100,000	12
Numbers to 1,000,000	15
Read and write 5- and 6-digit numbers	18
Powers of 10	21
10/100/1,000/100,000 more or less	24
Partition numbers to 1,000,000	27
End of unit check	30
Unit 2 – Place value within 1,000,000 (2)	**32**
Number line to 1,000,000	32
Compare and order numbers to 100,000	35
Compare and order numbers to 1,000,000	38
Round numbers to the nearest 100,000	41
Round numbers to the nearest 10,000	44
Round numbers to the nearest 10, 100 and 1,000	47
End of unit check	50
Unit 3 – Addition and subtraction	**52**
Mental strategies (addition)	52
Mental strategies (subtraction)	55
Add whole numbers with more than 4 digits (1)	58
Add whole numbers with more than 4 digits (2)	61
Subtract whole numbers with more than 4 digits (1)	64
Subtract whole numbers with more than 4 digits (2)	67
Round to check answers	70
Inverse operations (addition and subtraction)	73
Multi-step addition and subtraction problems (1)	76
Multi-step addition and subtraction problems (2)	79
Solve missing number problems	82
Solve comparison problems	85
End of unit check	88

Unit 4 – Multiplication and division (1) **90**
Multiples 90
Common multiples 93
Factors 96
Common factors 99
Prime numbers 102
Square numbers 105
Cube numbers 108
Multiply by 10, 100 and 1,000 111
Divide by 10, 100 and 1,000 114
Multiples of 10, 100 and 1,000 117
End of unit check 120

Unit 5 – Fractions (1) **122**
Equivalent fractions 122
Equivalent fractions – unit and non-unit fractions 125
Equivalent fractions – families of equivalent fractions 128
Improper fractions to mixed numbers 131
Mixed numbers to improper fractions 134
Compare fractions less than 1 137
Order fractions less than 1 140
Compare and order fractions greater than 1 143
End of unit check 146

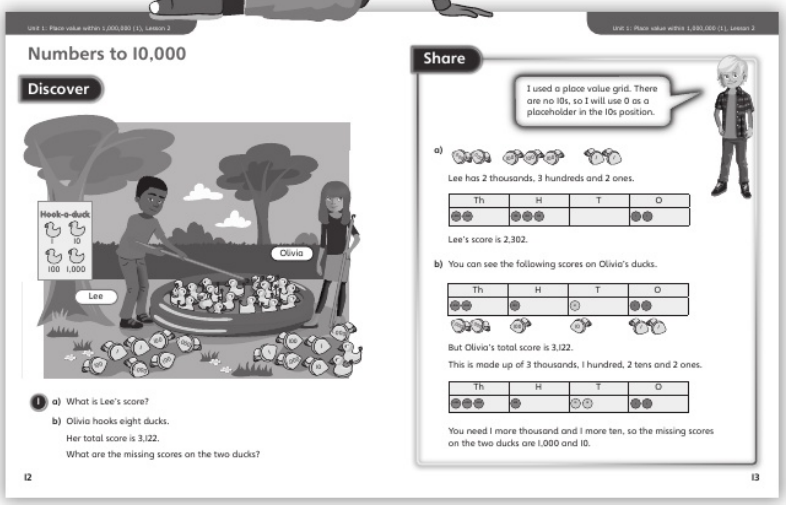
Unit 6 – Fractions (2) **148**
Add and subtract fractions 148
Add fractions within 1 151
Add fractions with a total greater than 1 154
Add to a mixed number 157
Add two mixed numbers 160
Subtract fractions within 1 163
Subtract from a mixed number 166
Subtract from a mixed number – breaking the whole 169
Subtract two mixed numbers 172
Solve fraction problems 175
Solve multi-step fraction problems 178
End of unit check 181

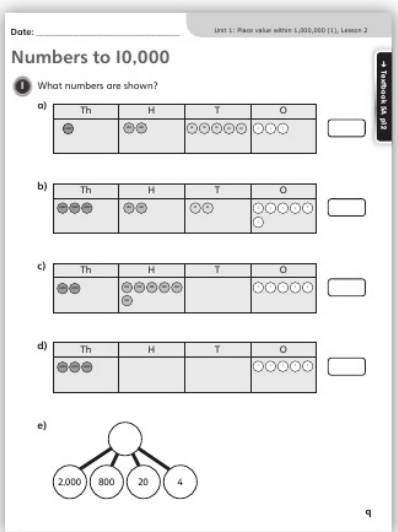
My Power Points 184

How to use this book

Do you remember how to use this **Practice 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.

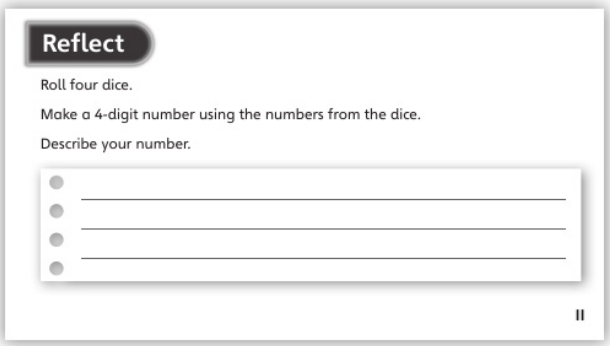
Challenge questions make you think hard!

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.

Use My Power Points at the back of this book to keep track of what you have learnt.



Reflect

Roll four dice.

Make a 4-digit number using the numbers from the dice.

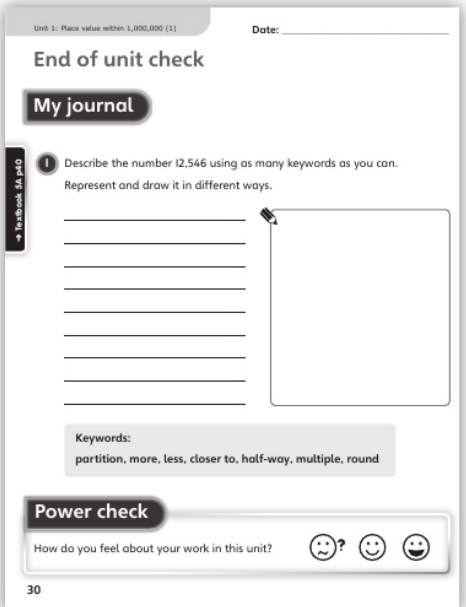
Describe your number.

11

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 1: Place value within 1,000,000 (1)

Date: _____

End of unit check

My journal

→ Textbook 3A p40

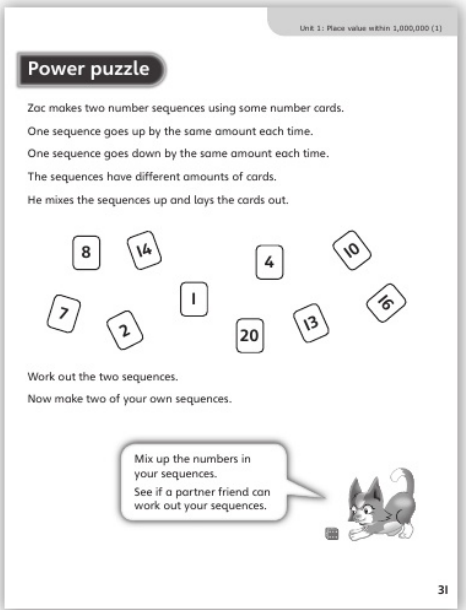
1 Describe the number 12,546 using as many keywords as you can.
Represent and draw it in different ways.

Keywords:
partition, more, less, closer to, half-way, multiple, round

Power check

How do you feel about your work in this unit?

30



Unit 1: Place value within 1,000,000 (1)

Power puzzle

Zac makes two number sequences using some number cards.
One sequence goes up by the same amount each time.
One sequence goes down by the same amount each time.
The sequences have different amounts of cards.
He mixes the sequences up and lays the cards out.

8 14 4 10 1 16 7 2 20 13

Work out the two sequences.
Now make two of your own sequences.

Mix up the numbers in your sequences.
See if a partner friend can work out your sequences.

31

Date: _____

→ Textbook 5A p8

Roman numerals

1 Write these numbers in Roman numerals.

a) 12 ☐

b) 35 ☐

c) 43 ☐

d) 90 ☐

e) 114 ☐

Number	Roman numeral
1	I
5	V
10	X
50	L

2 Complete the table to show the multiples of 100 in Roman numerals.

100	C	600	DC
200	CC	700	
300		800	
400		900	
500	D	1,000	M

3 Fill in the missing numbers.

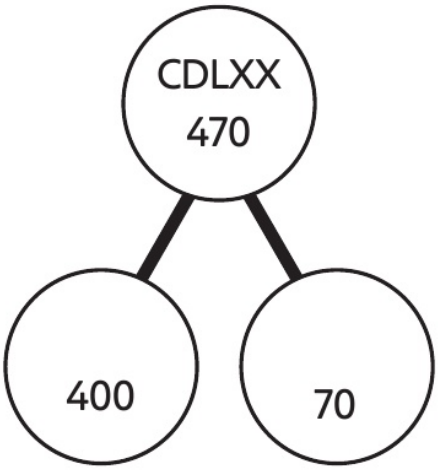
a) MMCXI means ☐ + ☐ + ☐ + ☐ + ☐ = ☐

b) DCCL means ☐ + ☐ + ☐ + ☐ = ☐

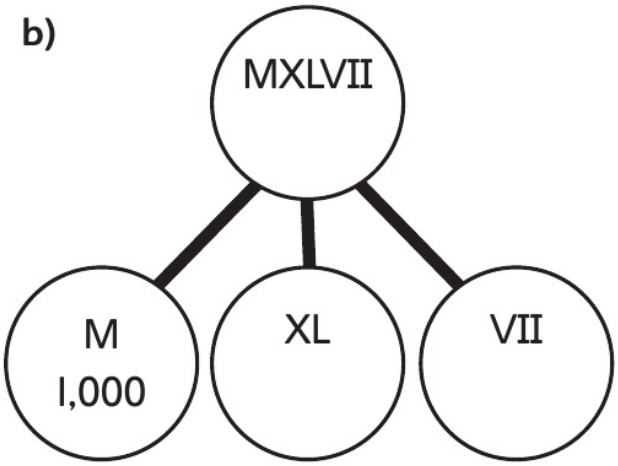
c) CXCV means ☐ + ☐ − ☐ + ☐ = ☐

4 Complete the part-whole models.

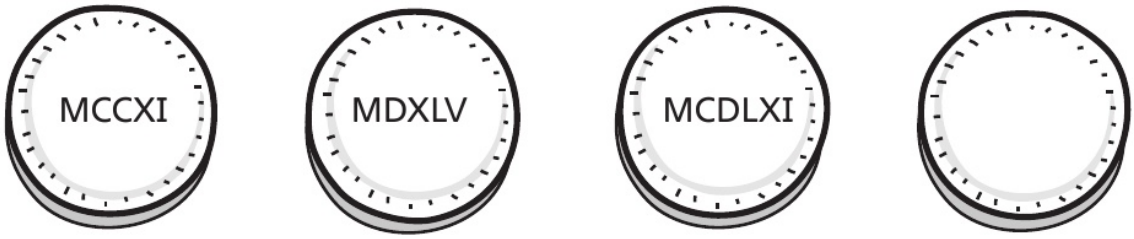
a)



b)



5 **a)** Draw lines to match each coin with the correct year.



1461	1211	1901	1545

b) Write the missing Roman numerals on the last coin.

6 Lexi says MCX is the same as CMX because they contain the same letters. Is Lexi correct? Explain your answer.

7 Complete the three sentences using Roman numerals.

a) 10 years earlier than 1985 is ☐.

b) 100 years later than 1480 is ☐.

c) 50 years later than 1962 is ☐.

8 Use each number card once so that the column of numbers below is in descending order.

CHALLENGE

V	X	L	C	D

MDC☐IX

MC☐VI

DCCL☐

☐DXXI

CCCX☐

Think carefully about the size of the number each card represents and which other numerals it can be written before or after.

Reflect

Today, I have learnt that the letter M in Roman numerals represents _____. The letter D represents _____ and L represents _____.

Together, MDXL represents the number _____ because

_____

_____

→ Textbook 5A p12

Numbers to 10,000

1 What numbers are shown?

a)

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

b)

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

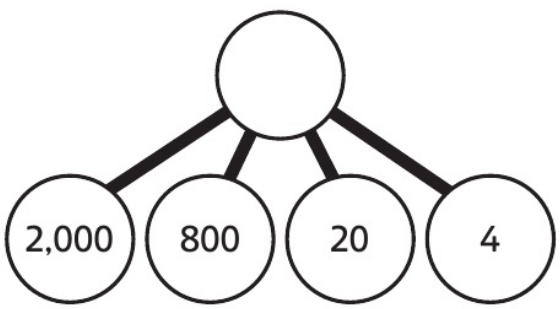
c)

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

d)

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

e)



2 **a)** Draw more place value counters to represent the number 5,632.

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

b) Fill in the missing numbers.

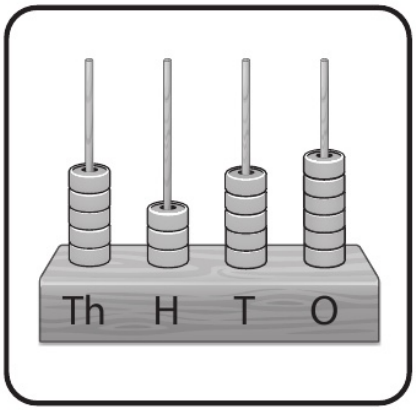
5,632 = 5,000 + ☐ + ☐ + ☐

3 What is the value of each underlined digit?

a) 1,7<u>9</u>4 ☐ **b)** 6,<u>4</u>80 ☐ **c)** <u>2</u>,058 ☐

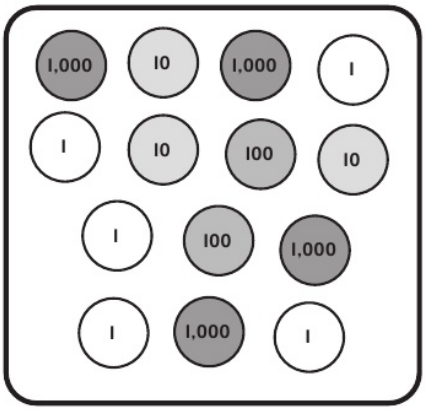
4 What numbers are shown?

a)



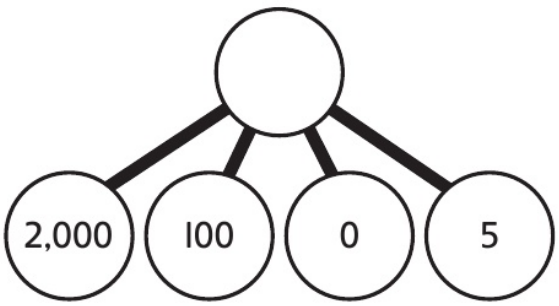
☐

c)



☐

b)



5 Here are four digit cards.

0	2	5	8

CHALLENGE

I wonder if some of these have more than one answer.

Arrange the digits to make:

a) a number that has 5 hundreds

b) a number that is odd

c) a number where 2 has the value of 20

d) the largest possible even number.

Reflect

Roll four dice.

Make a 4-digit number using the numbers from the dice.

Describe your number.

Date: _____

→ Textbook 5A p16

Numbers to 100,000

1 **a)** The digit cards represent a 5-digit number.

Write your answers in words.

TTh	Th	H	T	O
8	5	0	1	3

What does the digit 5 represent? 5 thousands

What does the digit 1 represent? _____

What does the digit 8 represent? _____

What is the digit in the 100s position? _____

b) The digit cards 5 and 8 swap positions.

Write the new number in numerals and then in words.

In numerals: ☐

In words: _____

2 Draw lines to match the value of the digit **4** in each of these four numbers.

43,250	**32,409**	**34,250**	**23,546**

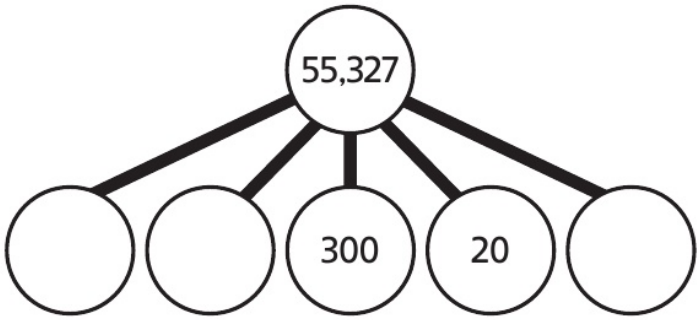
4	40	4,000	40,000	400

3 Draw more counters on the place value grid to show the number 26,415.

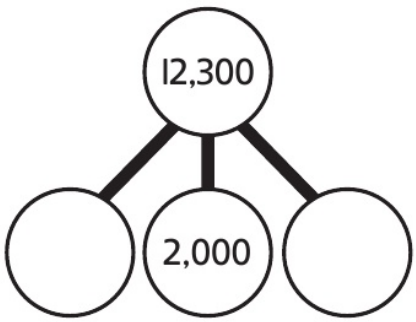
TTh	Th	H	T	O
10,000	1,000 1,000 1,000 1,000 1,000	100 100 100 100		1 1 1

4 Complete each part-whole model.

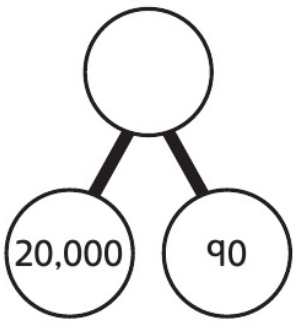
a)



b)



c)



5 **a)** What is 1,000 more than 13,572? ☐

b) What is 100 more than 13,572? ☐

c) What is 200 less than 13,572? ☐

d) What is 50,000 more than 13,572? ☐

CHALLENGE

6 Max uses these digit cards to make three 5-digit numbers.

?	?	?	2	0

His first number is greater than 60,000.

His second number has an even number of hundreds.

His final number has a digit with the value 5,000.

a) What could the missing digits on the cards be?

☐, ☐ and ☐

b) Which numbers could Max make?

c) Make up your own similar puzzle.

Reflect

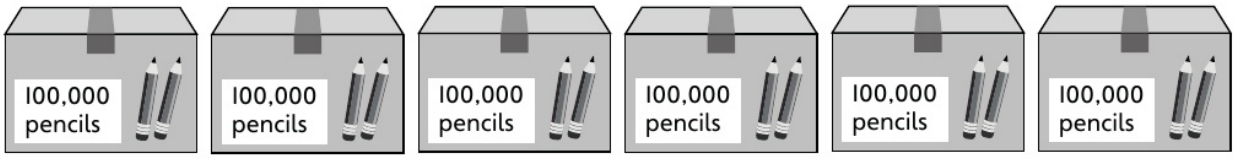
Show or write the value of each digit in the number 64,231.

→ Textbook 5A p20

Numbers to 1,000,000

1 How many pencils are there in total?

Write your answer in numerals and words.



In numerals: there are ☐ pencils in total.

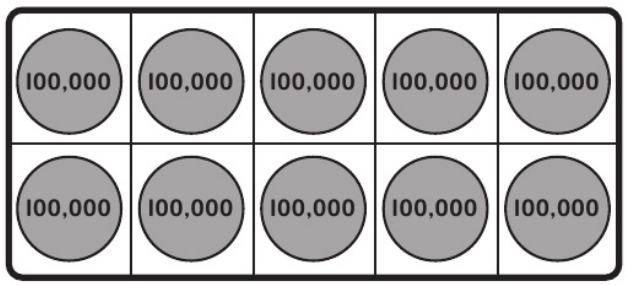
In words: there are _____ pencils in total.

2 What numbers are represented here?

a)

☐

b)



☐

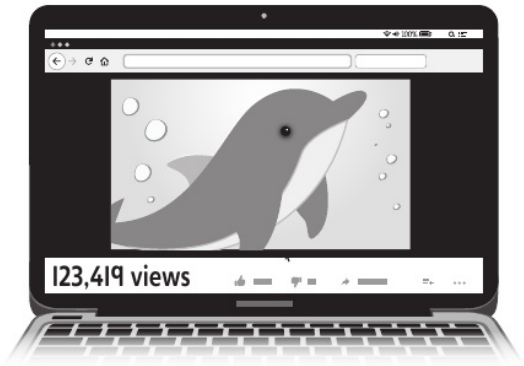
c)

HTh	TTh	Th	H	T	O
●	●●●●● ●●	●●	●●●	●	●●●●●

☐

3 Bella is watching a video on her computer.

Write the number of views in words.



_____

_____

_____

4 Draw the number 126,300 in the place value grid.

HTh	TTh	Th	H	T	O

5 Write each of the following numbers in numerals.

a) Three hundred and twenty-nine thousand and one hundred.

b) Six hundred thousand and forty.

c)

17/08/2022

The Lucky Winner.

Four hundred thousand, five hundred and ninety-six pounds

£

6 What does the 4 represent in each of these numbers?

a) 314,912 _____

b) 240 _____

c) 500,240 _____

d) 77,314 _____

e) Four hundred and eight thousand, three hundred and one.

_____

7 Olivia makes this number.

CHALLENGE

HTh	TTh	Th	H	T	O
●●●	●		●	●●	●●●●●

Olivia moves two counters. Her number now has 1 thousand.

What could the new number be? Find five possible answers.

[ ] , [ ] , [ ] , [ ] , [ ]

Reflect

Write a 6-digit number. [ ]

Swap the number with a partner.

Say the number aloud and write it in words.

- _____
- _____
-