

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.

Unit 8: Measure – area and perimeter, Lesson 8

Comparing area

Discover

1 a) Which window has the larger area, A or B?
b) What is the area of window C in square metres (m²)?

Unit 8: Measure – area and perimeter, Lesson 8

Share

a) Each small pane of glass has an area of 1 square metre.

A

1	1	2	3	4	5
2					
3					
4					
5					

A has 5 rows of 5 panes
 $5 \times 5 = 25$ panes
The area of window A is 25 m².

B

1	1	2	3	4	5	6	7	8
2								
3								

B has 3 rows of 8 panes
 $3 \times 8 = 24$ panes
The area of window B is 24 m².
 $25 > 24$, so window A has the larger area.

b)

I am going to use length \times width to work out the area of window C.

C

Area = length \times width
Area of window C = $5 \text{ m} \times 4 \text{ m} = 20 \text{ m}^2$
The area of window C is 20 m².

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Textbook 54 p104

Unit 8: Measure – area and perimeter, Lesson 4

Calculating area 1

1 This map shows the location of three top secret buildings. They are all rectangles and are drawn to the same scale. Complete the calculations to show the actual area of each building.

a) Building 1
The area of the building on the map is made up of squares.
Each square is worth square metres.
 squares \times m² = m²

b) Building 2
 squares \times m² = m²

c) Building 3
 squares \times m² = m²

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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

This is a scale drawing of a room.

$\square = 4 \text{ m}^2$

The actual area of the room in real life is _____
 I know this because _____

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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.

→ Textbook SA p220

Unit 6: Measure – area and perimeter

End of unit check

My journal

1 Explain how you would find the missing values.

a) I know that the perimeter of this shape is _____ because _____

b) I know that the area of this shape is _____ because _____

Power check

How do you feel about your work in this unit? 😐? 😊 😄

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Unit 6: Measure – area and perimeter

Power puzzle

Show your working for each of these puzzles. You must use whole squares.

1 A rectangle has an area of 24 cm^2 .
What is the largest perimeter it can have?

2 A rectangle has a perimeter of 24 cm .
What is the largest area it can have?

Can you also work out the smallest area it can have?

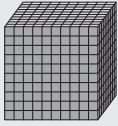
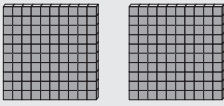
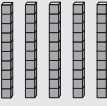

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Numbers to 10,000

I Lexi has used base 10 equipment to represent some numbers.

What numbers has she represented?

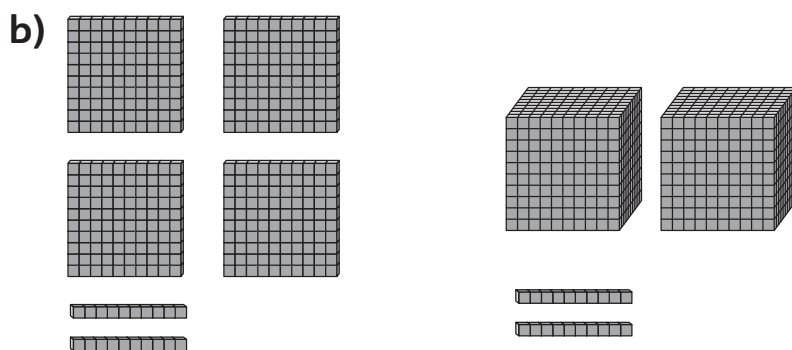
a)

Th	H	T	O
			

There are thousands, hundreds, tens and ones.

$$\boxed{} + \boxed{} + \boxed{} + \boxed{} = \boxed{}$$





The number is .



There are thousands, hundreds, tens and ones.

The number is .

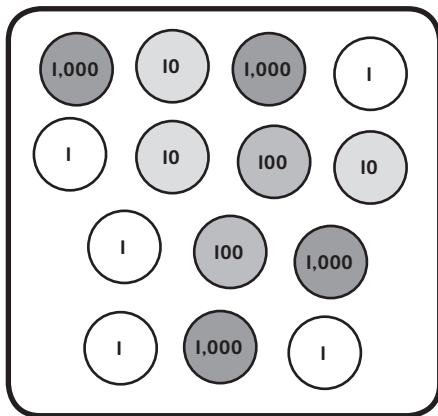
2 a) Draw more place value counters to represent the number 5,632.

Th	H	T	O
			

b) Fill in the missing numbers.

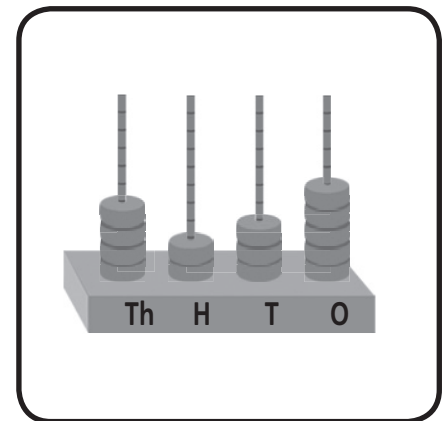
$$5,632 = \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

3 Put a cross on the box that does **not** represent 4,235.

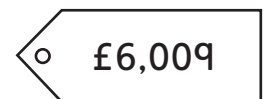


$$4,000 + 200 + 30 + 5$$

Four thousand, two hundred and twenty-five



4 a) Make all of the prices £1,000 more.



£

£

£

£

b) Make all of the prices £2,000 less.

£

£

£

£



- 5 Andy and Kate each write down a different 4-digit number using the digits 0, 2, 5 and 8.

Use the clues to work out the children's numbers.

- The value of the digit 2 in Andy's number is 20.
- In Andy's number, the digit 8 has the larger value.
- Andy's number has no 1s.

- The value of the digit 2 in Kate's number is 10 times larger than it is in Andy's.
- In Kate's number, the digit 8 has the smaller value.
- Kate's number has no 10s.

Andy's number is .

Kate's number is .

Reflect

$$7,562 = \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

Explain how the digits in 7,562 will change when you find 3,000 less.

● _____

● _____

● _____

● _____