Power Maths

White Rose Maths

White Rose Maths Edition

Year 5
Practice Book
5B

Pearson

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Year 5
Practice Book 5B

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What did you learn last term in maths?

Draw or write one thing you remember.

This book belongs to _____ .

My class is _____ .

Pearson

Contents

This looks like a good challenge!

It is time to do some practice!

How to use this book

How does this **Practice Book** work?

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

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 you can check this calculation in two different ways.

1,143 × 5 = 5,715

35

Use **My power points** at the back of this book to keep track of what you have learnt.

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.

Date: _____

Multiply a number up to 4-digits by a 1-digit number

↑ Textbook 5B p8

1 Use base 10 equipment to help you work out 6 × 27.
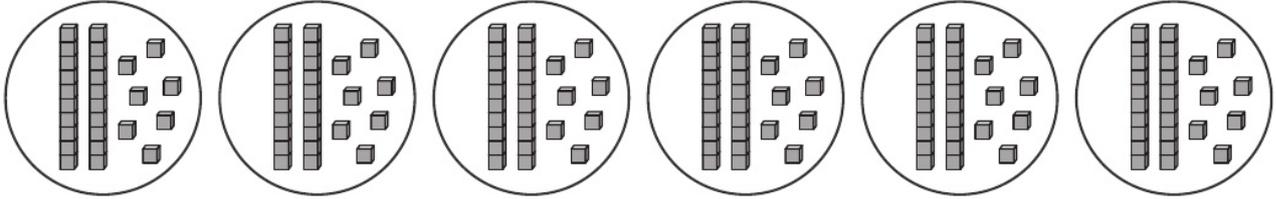
6 × 20 = ▢

6 × 7 = ▢

▢ + ▢ = ▢

So, 6 × 27 = ▢

2 Work out 5 × 135.

H	T	O
100	10 10 10	1 1 1 1 1
100	10 10 10	1 1 1 1 1
100	10 10 10	1 1 1 1 1 1
100	10 10 10	1 1 1 1 1
100	10 10 10	1 1 1 1 1

5 × 100 = ▢   5 × 30 = ▢   5 × 5 = ▢

▢ + ▢ + ▢ = ▢

So, 5 × 135 = ▢

3 Use the grid method to work out the multiplications.

a) $32 \times 7 = \boxed{}$

		H	T	O
	+			

30   2

7 | $\boxed{} \times \boxed{} = \boxed{}$ $\boxed{} \times \boxed{} = \boxed{}$

b) $3 \times 314 = \boxed{}$

$\boxed{}$ $\boxed{}$ $\boxed{}$

$\boxed{}$ | | | |

		H	T	O
	+			

4 Work out the answer to each multiplication.

a) $19 \times 6 = \boxed{}$

		H	T	O
			1	9
	×			6

c) $235 \times 3 = \boxed{}$

		H	T	O
		2	3	5
	×			3

e) $1{,}704 \times 5 = \boxed{}$

		Th	H	T	O
		1	7	0	4
	×				5

b) $48 \times 6 = \boxed{}$

		H	T	O
			4	8
	×			6

d) $8 \times 711 = \boxed{}$

		Th	H	T	O
			7	1	1
	×				8

f) $739 \times 9 = \boxed{}$

		Th	H	T	O
			7	3	9
	×				9

5 How many sweets are there in 8 jars?
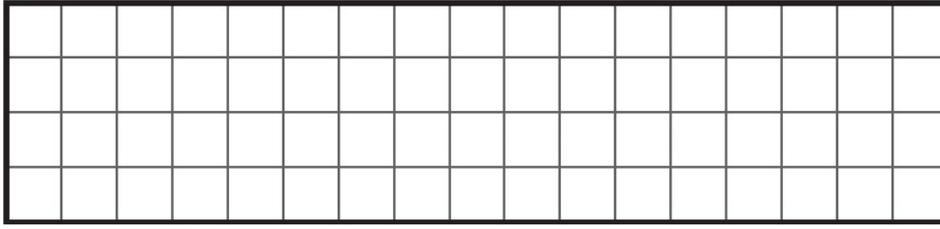
There are ⬜ sweets in 8 jars.

2,300 sweets

CHALLENGE

6 What is the total mass of all of these boxes?

Explain your method.

45 g
45 g 45 g

376 g
376 g 376 g

918 g
918 g 918 g
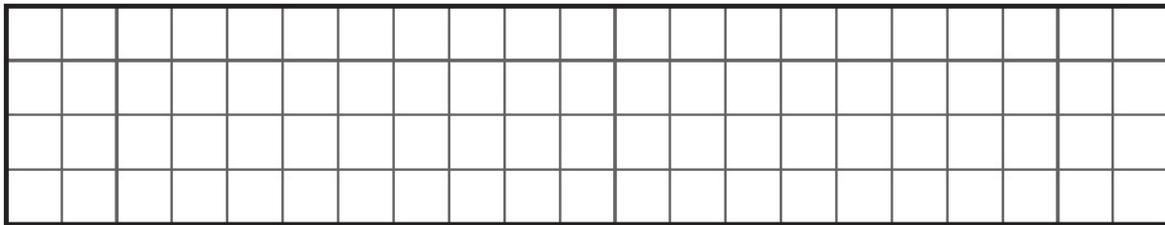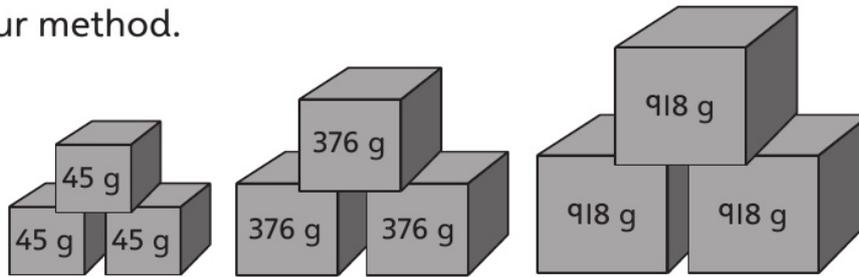
Reflect

Explain how to use short multiplication to work out 127 × 5.

Multiply 2-digit numbers (area model)

1 **a)** Use the area model to work out 26 × 14.

26

20	6

10

14

4

$\boxed{} \times \boxed{} = \boxed{}$ $\boxed{} \times \boxed{} = \boxed{}$

$\boxed{} \times \boxed{} = \boxed{}$ $\boxed{} \times \boxed{} = \boxed{}$

	H	T	O
+			

26 × 14 = $\boxed{}$

b) Use the area model to work out 17 × 42.

17

$\boxed{}$ $\boxed{}$

42

$\boxed{}$

$\boxed{}$

	H	T	O
+			

17 × 42 = $\boxed{}$

c) Zac says, 'On my area model, I put 42 along the top and 17 down the side.'

Will Zac still get the same answer? Explain why.

_____

_____

2 Work out these multiplications.

a) $27 \times 34 = \boxed{}$

	H	T	O
+			

b) $53 \times 38 = \boxed{}$

	Th	H	T	O
+				

3 Each week Mike runs 41 km. How far does Mike run in 19 weeks?

Mike runs $\boxed{}$ km in 19 weeks.

4 Bella is working out 53×27.

Circle the mistakes Bella has made. What is the correct answer?

	50	3
20	50 × 20 = 100	3 × 20 = 60
7	50 × 7 = 350	3 × 7 = 10

$53 \times 27 = \boxed{}$

	Th	H	T	O
		3	5	0
		1	0	0
			6	0
+			1	0
	1	1	5	0

5 This is the method Gina used to work out 23×47.

- First, multiply 20 by 40, which is $20 \times 40 = 800$.

- Next, multiply 3 by 7, which is $3 \times 7 = 21$.

- Now add those answers together, which is $800 + 21 = 821$.

What mistakes has Gina made? Explain why her method does not work.

_____

_____

6 Isla is trying to multiply two 2-digit numbers.

Here is her working so far. What numbers is she trying to multiply?

Complete Isla's working and give the answer to the multiplication.

CHALLENGE

	900	240
		48

Reflect

Explain the method you would use to work out 56×21.

_____

_____

_____

Date: _____

Multiply 2-digit numbers

1 **a)** Olivia and Jamilla are working out 34 × 12.

They each use a different method. Complete their methods.

Olivia's method

34

10

2

$34 \times 12 = \boxed{}$

Jamilla's method

		H	T	O	
			3	4	
	×		1	2	
				0	

b) Whose method did you prefer? Why?

_____

_____

_____

2 Complete the following column multiplications.

a) $29 \times 23 = \boxed{}$

		H	T	O	
			2	9	
	×		2	3	
				0	

29 × 3
29 × 20
29 × 23

b) $37 \times 16 = \boxed{}$

		H	T	O	
			3	7	
	×		1	6	
				0	

37 × 6
37 × 10
37 × 16

3 Complete these calculations.

a) 45 × 27 = [ ]

	Th	H	T	O
			4	5
×			2	7
				0

45 × 7
45 × 20
45 × 27

c) 49 × 34 = [ ]
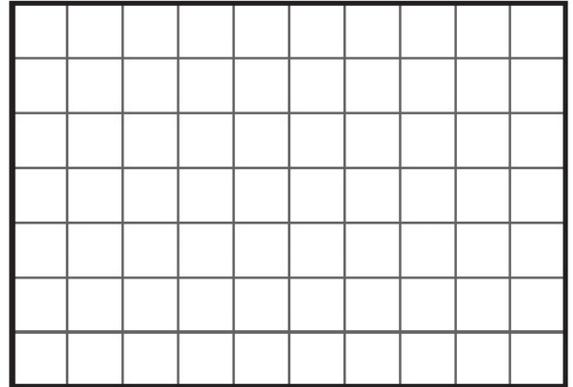
b) 52 × 17 = [ ]

	H	T	O
		5	2
×		1	7
			0

d) 28 × 76 = [ ]
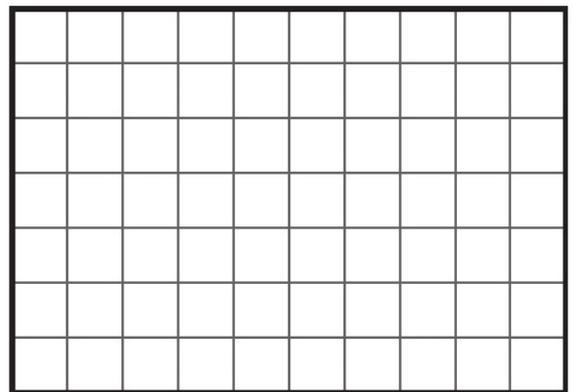
4 A snack bar weighs 85 grams.

How much does a pack of 24 snack bars weigh?

13

5 What multiplication does this bar model represent? Work out the answer.

89	89	89	89	89	89	89	89	89	89	89	89	89	89

?

6 Work out the missing digits in these calculations.

CHALLENGE

a)

		H	T	O
		3	6	
×			1	◯
	◯	◯	8	
	◯	◯	0	
	◯	6	◯	

b)

		Th	H	T	O
				◯	◯
×				◯	3
			2	2	2
		2	9	6	0
	◯	◯	◯	◯	

Reflect

Explain how you would work out 99 × 47.

- _____
- _____
- _____
- _____