

Class 3 Home Learning, week beginning 8th June 2020

Maths - Year 3

Summer Term, Week 4
(w/c 11th May)

Lesson 2

Multiplying 2-digits by 1-digit

Please watch the video before choosing your challenge.

The **answers** for all challenges are included in this document.

Can I multiply a 2-digit number by a 1-digit number? (Y3)











Challenge 1

These pages do not need to be printed out. Please write the short date you do the work, the challenge and the above question in your maths book, underlining them neatly with a ruler. Remember to write the question number too!

Questions 1-4 mentioned in the video are questions 1-4 in this challenge.

1) Copy and complete the number sentences in your maths book.



Tens	Ones
	
	
	
	
	

How many marbles are there in total?

$$5 \times 3 \text{ ones} = \square$$

$$5 \times 2 \text{ tens} = \square$$

$$\square + \square = \square$$

$$5 \times 23 = \square$$

There are marbles in total.

2) Copy and complete the number sentences in your maths book.

Work out 4×15

Tens	Ones
10	1 1 1 1 1
10	1 1 1 1 1
10	1 1 1 1 1
10	1 1 1 1 1

$$4 \times 5 = \square$$

$$4 \times 10 = \square$$

$$4 \times 15 = \square$$

3) Copy and complete the number sentences in your maths book. Show how you worked out the answers.

Complete the multiplications.

a) $4 \times 24 = \square$

b) $3 \times 17 = \square$

c) $3 \times 25 = \square$

d) $34 \times 4 = \square$

4) Copy and complete the column multiplications in your maths book.

Tens	Ones
10 10	1 1 1 1
10 10	1 1 1 1
10 10	1 1 1 1

		T	O	
		2	4	
	x		3	

Tens	Ones
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1

		T	O	
		3	5	
	x		4	

Answers are on the next page.

Can I multiply a 2-digit number by a 1-digit number? (Y3)

Challenge 1 ANSWERS

- 1 There are 23 marbles in a jar.
There are 5 jars.



Tens	Ones

How many marbles are there in total?

$5 \times 3 \text{ ones} = 15$

$5 \times 2 \text{ tens} = 100$

$15 + 100 = 115$

$5 \times 23 = 115$

There are 115 marbles in total.

- 2 Work out 4×15

Tens	Ones

$4 \times 5 = 20$

$4 \times 10 = 40$

$4 \times 15 = 60$

- 4 Complete the column multiplications.

Tens	Ones

	T	O	
	2	4	
x		3	
		7	2
			1

Tens	Ones

		T	O
		3	5
x			4
		1	4
			2

- 3 Complete the multiplications.

a) $4 \times 24 = 96$

b) $3 \times 17 = 51$

c) $3 \times 25 = 75$

d) $34 \times 4 = 136$

Can I multiply a 2-digit number by a 1-digit number? (Y3)

Challenge 2

These pages do not need to be printed out. Please write the short date you do the work, the challenge and the above question in your maths book, underlining them neatly with a ruler. Remember to write the question number too!

Questions 1-4 mentioned in the video are questions 1-4 in Challenge 1.

Questions 5-8 are questions 1-4 in this challenge.

1) Copy and complete as column multiplications in your maths book.

a) 25×5

			T	O	
			2	5	
	x			5	
			<hr/>		
			<hr/>		

c) 5×26

b) 35×6

			T	O	
			3	5	
	x			6	
			<hr/>		
			<hr/>		

d) 4×36

2)

Tommy works out 37×2

			T	O	
			3	7	
	x			2	
			6	1	4

What mistake has Tommy made? Work out the correct answer.

3) Copy and complete.

Find the missing numbers.

		2	2	
	x			
		8	8	

				1
	x			
		1	2	4

4) Remember: a product is the answer to a multiplication.

Here are some digit cards.

1	2	3	4	5	8
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a) Use the digit cards to create a multiplication and work out the answer.

$$\square \square \times \square = \square$$

b) Work with a partner to find calculations that have:

- an odd product
- an even product
- an exchange in the ones column
- an exchange in the ones and tens columns.

Can I multiply a 2-digit number by a 1-digit number? (Y3)

Challenge 2 ANSWERS

1) Work out the multiplications.

a) 25×5

		T	O	
		2	5	
	x		5	
		1	2	5
			2	

c) 5×26

		T	O	
		2	6	
	x		5	
		1	3	0
			3	

b) 35×6

		T	O	
		3	5	
	x		6	
		2	1	0
			3	

d) 4×36

		T	O	
		3	6	
	x		4	
		1	4	4
			2	

2) Tommy works out 37×2

		T	O	
		3	7	
	x		2	
		6	1	4

		T	O	
		3	7	
	x		2	
		7	4	
			1	

What mistake has Tommy made? Work out the correct answer.

3) Find the missing numbers.

		2	2	
	x		4	
		8	8	

		3	1	
	x		4	
		1	2	4

4) Here are some digit cards. 1 2 3 4 5 8

a) Use the digit cards to create a multiplication and work out the answer.

Eg. 3 2 \times 5 = 160

b) Work with a partner to find calculations that have:

- an odd product
- an even product
- an exchange in the ones column
- an exchange in the ones and tens columns.

Can I multiply a 2-digit number by a 1-digit number? (Y3)

Reasoning and problem solving

These pages do not need to be printed out. Please write the short date you do the work, the challenge and the above question in your maths book, underlining them neatly with a ruler. Remember to write the question number too!

1) Alex completes the calculation:

$$43 \times 2$$

Can you spot her mistake?

	T	O
	4	3
×		2
<hr/>		
		6
+		8
<hr/>		
	1	4

2) Teddy completes the same calculation as Alex.

Can you spot and explain his mistake?

	T	O
	4	3
×		2
<hr/>		
8	0	6

3) Dexter says,



$$4 \times 21 = 2 \times 42$$

Is Dexter correct?

Answers are on the next page.

Multiply 2-digits by 1-digit (1)

Reasoning and Problem Solving

Alex completes the calculation:

$$43 \times 2$$

Can you spot her mistake?

	T	O
	4	3
x		2
<hr/>		
		6
+		8
<hr/>		
	1	4

Alex has multiplied 4 by 2 rather than 40 by 2

Teddy completes the same calculation as Alex.

Can you spot and explain his mistake?

	T	O
	4	3
x		2
<hr/>		
	8	0
<hr/>		
		6

Dexter says,



$$4 \times 21 = 2 \times 42$$

Is Dexter correct?

Teddy has written 80 where he should have just put an 8 because he is multiplying 4 tens by 2 which is 8 tens. The answer should be 86

True. Both multiplications are equal to 84

Children may explore that one number has halved and the other has doubled.