

Class 3 Home Learning, week beginning 1st June 2020

Maths - Year 4

Summer Term

Week 3 (w/c 4th May)

Lesson 1

Multiply a 2-digit number by a 1-digit number

We have looked at multiplying a 2-digit number by a 1-digit number in class this year.

For today's lesson, there will be some activities linked to this, as well as multiplying a 3 or 4-digit number by a 1-digit number.

If you are confident with this maths, I have included an extra activity of multiplying three numbers together. We have not done this yet in class, but just have a go! Remember: multiplication is commutative, so you can multiply the numbers in any order.

Please watch the video on the White Rose Maths Home Learning website if you need a reminder of how to multiply a 2-digit number by a 1-digit number.

Can I multiply a 2-digit number by a 1-digit number?

## Challenge 1

This page does not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to also write which activity you choose (you do not have to do both).

### Activity 1

Complete the worksheet which can be found on the White Rose Maths Home Learning website. You do not need to print it out, just do your best to copy and complete the question when possible, or to just show your calculations and write the answer in your maths book.

### Lesson 1 - Multiply 2-digit number by 1 digit number

$3 \times 27 =$

Tree diagram: 27 (20 and 7)

Grid: Tens (3), Ones (7)

Partial multiplication grid:

T	O
2	7
	3
2	1

Video player: 11:06

[Get the Activity](#)

Y4 Lesson 1 Multiply 2-digits by 1-digit 2019

[Get the Answers](#)

Y4 Lesson 1 Answers Multiply 2-digits by 1-digit 2019

### Activity 2

Choose Challenge 'A' from the work on the next page. Please copy the question into your maths book. Remember to write one digit/symbol per square!

Can I multiply a 2, 3 or 4-digit number by a 1-digit number?

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**Challenge 1:** choose 'A'

**Challenge 2:** choose 'B'

**Challenge 3:** choose 'C'

Please copy the question in full in your maths book, remembering one digit/symbol per square.

**A**

Work out

- |                 |                  |
|-----------------|------------------|
| 1 $27 \times 2$ | 9 $47 \times 5$  |
| 2 $35 \times 4$ | 10 $56 \times 3$ |
| 3 $19 \times 3$ | 11 $85 \times 2$ |
| 4 $59 \times 8$ | 12 $67 \times 4$ |
| 5 $23 \times 5$ | 13 $58 \times 5$ |
| 6 $64 \times 2$ | 14 $27 \times 8$ |
| 7 $28 \times 4$ | 15 $94 \times 4$ |
| 8 $36 \times 8$ | 16 $38 \times 3$ |

- 17 How many skis are needed for a party of 38 skiers?



- 18 Sixty-nine people pay £5 each for a coach ticket. How much do they pay altogether?
- 19 Pairs of socks are sold in packs of three. How many pairs are there in 47 packs?

**B**

Work out

- |                  |                   |
|------------------|-------------------|
| 1 $237 \times 6$ | 9 $674 \times 4$  |
| 2 $168 \times 5$ | 10 $236 \times 7$ |
| 3 $459 \times 8$ | 11 $504 \times 9$ |
| 4 $520 \times 7$ | 12 $158 \times 6$ |
| 5 $316 \times 9$ | 13 $387 \times 3$ |
| 6 $859 \times 2$ | 14 $162 \times 8$ |
| 7 $146 \times 6$ | 15 $490 \times 6$ |
| 8 $738 \times 8$ | 16 $354 \times 7$ |

- 17 Tickets for a Fun Run cost £6 each. 249 people buy tickets. How much is made for charity from ticket sales?

- 18 Each sweet weighs 5 g. What do 375 sweets weigh?

- 19 Each row of knitting takes eight minutes. There are 147 rows in a pattern. How long will it take to knit?

- 20 Elsie takes four pills every day. How many does she take in a non-leap year?

**C**

Work out

- |                   |                    |
|-------------------|--------------------|
| 1 $4386 \times 2$ | 9 $2395 \times 7$  |
| 2 $2193 \times 9$ | 10 $8749 \times 3$ |
| 3 $3249 \times 6$ | 11 $2608 \times 8$ |
| 4 $5157 \times 8$ | 12 $1573 \times 6$ |
| 5 $2604 \times 7$ | 13 $3645 \times 9$ |
| 6 $7359 \times 5$ | 14 $2586 \times 4$ |
| 7 $6172 \times 6$ | 15 $6180 \times 7$ |
| 8 $2638 \times 9$ | 16 $4379 \times 8$ |

- 17 A stately home has 8269 visitors, each paying £5 entrance fee. How much is taken in entrance fees?

- 18 The population of Westham is 5846. Three times as many people live in Eastham. What is the population of Eastham?

- 19 Each car weighs 1874 kg. What is the total weight of the eight cars on a transporter?

- 20 Aryan earns £2957 each month. How much does he earn in six months?

Can I multiply three numbers together?

**Extra activity**

This page does not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to also write which challenge you choose.

**MULTIPLYING 3 NUMBERS TOGETHER**
45

**TARGET** To multiply three numbers together in any order.

*Examples*

Multiply in any order

 $(6 \times 4) \times 8 = 6 \times (4 \times 8)$   
 $24 \times 8 = 6 \times 32$   
 $160 + 32 = 180 + 12$   
 $192 = 192$

Look for pairs that make multiples of 10.

$8 \times 9 \times 5$	not	$8 \times 9 \times 5$
$9 \times 40$	not	$72 \times 5$
360		$350 + 10$
		360

Generally multiply largest numbers first.

$4 \times (6 \times 9)$	not	$(4 \times 6) \times 9$
$4 \times 54$		$24 \times 9$
$200 + 16$		$180 + 36$
216		216

**A**

Copy and complete.

- 1  $3 \times 6 \times 10 = \square \times 10$   
=  $\square$
- 2  $9 \times 4 \times 5 = 9 \times \square$   
=  $\square$
- 3  $3 \times 9 \times 2 = \square \times 2$   
=  $\square$
- 4  $10 \times 4 \times 7 = 10 \times \square$   
=  $\square$
- 5  $7 \times 6 \times 5 = 7 \times \square$   
=  $\square$
- 6  $8 \times 7 \times 2 = \square \times 2$   
=  $\square$
- 7  $9 \times 10 \times 5 = \square \times 10$   
=  $\square$
- 8  $4 \times 12 \times 5 = 4 \times \square$   
=  $\square$
- 9  $6 \times 2 \times 7 = \square \times 2$   
=  $\square$
- 10  $8 \times 10 \times 6 = 10 \times \square$   
=  $\square$
- 11  $5 \times 3 \times 8 = 3 \times \square$   
=  $\square$
- 12  $2 \times 11 \times 4 = 2 \times \square$   
=  $\square$

**B**

Write answers only.

- 1  $11 \times 10 \times 3$
- 2  $5 \times 9 \times 8$
- 3  $9 \times 2 \times 6$
- 4  $8 \times 9 \times 10$
- 5  $12 \times 6 \times 5$
- 6  $3 \times 5 \times 4$
- 7  $4 \times 10 \times 12$
- 8  $2 \times 12 \times 7$
- 9  $7 \times 3 \times 6$
- 10  $20 \times 9 \times 5$

Use jottings to work out.

- 11  $4 \times 9 \times 4$
- 12  $3 \times 6 \times 12$
- 13  $5 \times 3 \times 16$
- 14  $4 \times 7 \times 8$
- 15  $11 \times 4 \times 12$
- 16  $6 \times 6 \times 6$
- 17  $8 \times 3 \times 11$
- 18  $7 \times 4 \times 6$
- 19  $6 \times 9 \times 11$
- 20  $9 \times 3 \times 7$

**C**

Write answers only.

- 1  $70 \times 20 \times 4$
- 2  $12 \times 7 \times 50$
- 3  $8 \times 9 \times 9$
- 4  $7 \times 11 \times 5$
- 5  $30 \times 8 \times 5$
- 6  $9 \times 3 \times 7$
- 7  $20 \times 4 \times 25$
- 8  $4 \times 6 \times 40$
- 9  $8 \times 20 \times 6$
- 10  $15 \times 3 \times 6$

Copy and complete.

- 11  $\square \times 3 \times 25 = 600$
- 12  $3 \times \square \times 7 = 126$
- 13  $50 \times 4 \times \square = 1800$
- 14  $\square \times 7 \times 8 = 224$
- 15  $11 \times 9 \times \square = 495$
- 16  $\square \times 8 \times 4 = 960$
- 17  $\square \times 12 \times 35 = 840$
- 18  $5 \times 5 \times \square = 475$
- 19  $\square \times 20 \times 11 = 4400$
- 20  $12 \times \square \times 12 = 432$