

Class 3 Home Learning, week beginning 1st June 2020

Maths - Year 4

Summer Term

Week 3 (w/c 4th May)

Lesson 2

Multiply a 3-digit number by a 1-digit number

We have looked at multiplying a 3-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 4-digit number by a 1-digit number.

If you are confident with this maths, I have included two extra activities (word problems and multiplication pyramids).

Please watch the video on the White Rose Maths Home Learning website if you need a reminder of how to multiply a 3-digit number by a 1-digit number.

Can I multiply a 3-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 2 - Multiply 3-digit number by 1 digit number

103 × 4 =  
3 × 4 = 12  
0 × 4 = 0  
100 × 4 =

Hundreds	Tens	Ones
		1 1

H	T	O
1	0	3
		4
	1	2

103

100 0 3

[Get the Activity](#)  
Y4 Lesson 2 Multiply 3-digits by 1-digit 2019

[Get the Answers](#)  
Y4 Lesson 2 Answers Multiply 3-digits by 1-digit 2019

### Activity 2

Choose Challenge 'B' 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 3 or 4-digit number by a 1-digit number?

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.

**Challenge 1:** choose 'B'

**Challenge 2:** choose 'C'

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

**B**

Work out

- |                  |                   |
|------------------|-------------------|
| 1 $386 \times 4$ | 9 $307 \times 3$  |
| 2 $263 \times 7$ | 10 $248 \times 9$ |
| 3 $429 \times 3$ | 11 $874 \times 5$ |
| 4 $147 \times 6$ | 12 $539 \times 8$ |
| 5 $738 \times 3$ | 13 $576 \times 2$ |
| 6 $359 \times 9$ | 14 $369 \times 6$ |
| 7 $695 \times 5$ | 15 $947 \times 4$ |
| 8 $526 \times 8$ | 16 $780 \times 7$ |

- 17 One jar of mayonnaise holds 325 ml. How much is there in six jars?
- 18 The cost of entering a half marathon is £7. 278 people take part. How much is raised by the entrance fees?



- 19 Each flower tray has nine plants. How many plants are there in 167 trays?
- 20 How much is 736 five pound notes?

**C**

Work out

- 1  $1275 \times 9$
- 2  $2568 \times 6$
- 3  $4749 \times 5$
- 4  $3674 \times 8$
- 5  $7857 \times 4$
- 6  $5438 \times 7$
- 7  $3472 \times 6$
- 8  $2789 \times 3$
- 9  $4563 \times 9$
- 10  $3856 \times 5$
- 11  $2376 \times 7$
- 12  $5239 \times 8$
- 13 There are nine nails in each pack. How many nails are there in 3908 packs?
- 14 A plane flies 9042 miles every day. How far does it fly in a week?
- 15 Tickets for an ice show cost £8. In one week 4815 tickets are sold. How much is taken at the box office?
- 16 Colette earns £17.59 per hour. How much does she earn in six hours?



Can I solve puzzles involving multiplication and division?

Extra activity

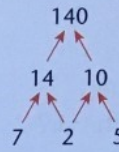
This page does not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to also write 'multiplication pyramids' and which challenge you choose.

**MULTIPLICATION PYRAMIDS**

**TARGET** To solve number puzzles involving multiplication and division.

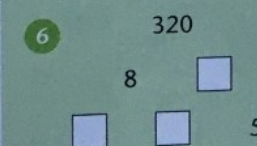
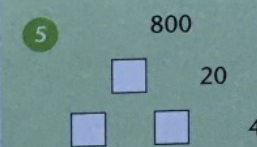
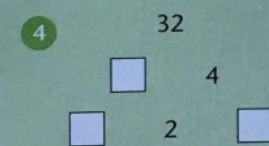
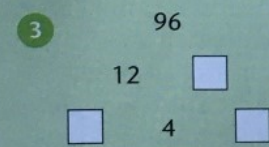
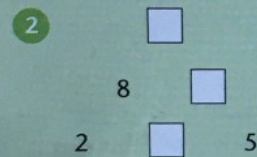
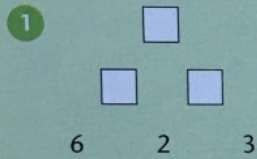
In a multiplication pyramid, pairs of numbers are multiplied together to make the number above them.

Example

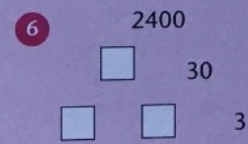
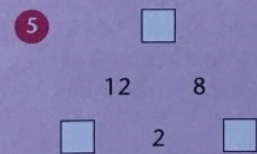
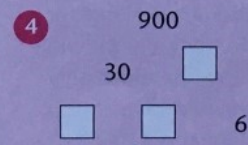
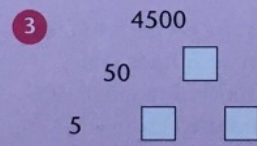
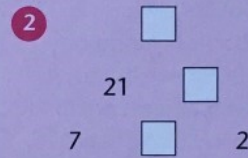
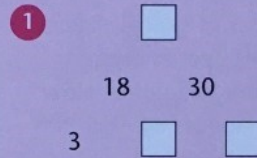


Copy and complete the multiplication pyramids.

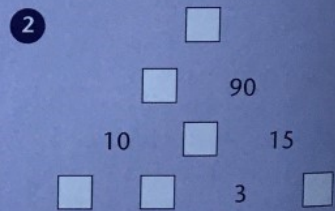
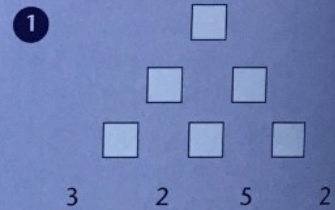
**A**



**B**



**C**



3 Make a multiplication pyramid with three single-digit numbers on the bottom layer and a top layer of:

- a) 600      c) 108
- b) 180      d) 490.

1 2 3 4

4 Arrange the above numbers to form the bottom layer of a multiplication pyramid with:

- a) the highest possible top layer total
- b) the lowest possible top layer total.



Can I solve word problems?

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.

(You may need to use any of the four operations (+, -, x or ÷) to solve these questions.)


**WORD PROBLEMS (WRITTEN) 1**
60

**TARGET** To use written methods to solve word problems.

**Example**  
 9317 people vote in an election.  
 The winner gets 5642 votes. How many people vote for the other candidate?


**Answer** 3675 people vote for the other candidate.

$$\begin{array}{r}
 \phantom{9}317 \\
 - 5642 \\
 \hline
 3675
 \end{array}$$



**A**

- 1 Kumar has three shelves of books. There are 49 books on each shelf. How many books does he have altogether?
- 2 A shop has 258 customers during the morning and 192 during the afternoon. How many customers does the shop have altogether?
- 3 Squads of 8 players in each team take part in a netball tournament. There are 128 players at the tournament. How many teams are taking part?
- 4 How much is sixty-seven £5 notes?
- 5 Hilary has painted 546 paintings. 367 have been sold. How many have not been sold?



**B**

- 1 There are 2195 people living in a village. 1428 of them use the village shop at least once a week. How many of the people in the village do not use the shop that regularly?
- 2 There are seven chicken pieces in each bag. How many chicken pieces are there in 319 bags?
- 3 One quarter of the 268 children in a school have fair hair. How many of the children have fair hair?
- 4 In September 3584 students return to university to continue their studies and 1757 students begin courses. How many students are there at the university?
- 5 A motorway services is used by 5264 male and 4735 female travellers. How many more males than females use the services?
- 6 A machine makes 576 nails every hour. How many nails does it make in six hours?

**C**

- 1 In a televised talent show 93 460 people voted. The winning act received 55 784 votes. How many votes did the other acts receive altogether?
- 2 A store has 1428 shirts in stock. One third of the shirts are white. How many white shirts are in stock?
- 3 A National Park Visitor Centre has 76 927 visitors in one year. In the following year visitor numbers increase by 16 574. How many people visit the Centre in the second year?
- 4 There are nine plants in each tray. How many plants are there in 2435 trays?
- 5 A crowd of 43 157 watch a football cup tie. The crowd for the replay is 38 269. How many more people watched the first game?
- 6 Clothes pegs are sold in packs of 12. How many packs can be made from 1776 pegs?