Lesson

Multiplying 3-Digit Numbers

In Focus





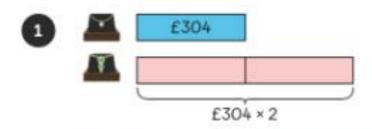
This costs twice as much.

How much does 🔼 cost?



Let's Learn

What type of calculation do we need to do to find out the answer?



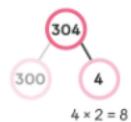
100 100 100	0000
100 100 100	0000

This method uses a bar model



costs £608.

2

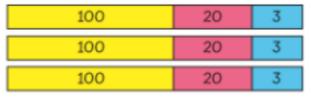


300 4

	3	0	4
×			2
			8
+	6	0	0
	6	0	8

In this method, we partition 304 in to 300 and 4

3



$$3 \times 100 = 300$$
 $3 \times 20 = 60$ $3 \times 3 = 9$

×	1	2	3
			9
		6	0
+	3	0	0
	3	6	9

This is a different calculation, but it uses the same methods.

multiply the ones multiply the tens multiply the hundreds

Guided Practice

Multiply.

(a) 143 × 2 =

100 10 10 10 10

100 × 2 =

40 × 2 = $3 \times 2 =$

143 × 2 =

(b) 3 × 212 =

100 10

200 × 3 = 10 × 3 =

 $2 \times 3 =$

212 × 3 =

Multiply.

(a) 101 × 7 =

1 0

(b) $2 \times 413 =$

> 3 1 2

 $2 \times 413 = 413 \times 2$





Multiply.

(a) 302 × 3 =

3 0 2 $4 \times 112 = 112 \times 4$

4 × 112 = (b)

> 1 1 2

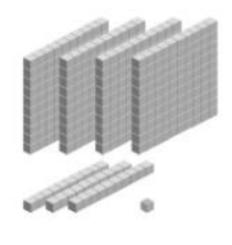


Find the product of 3 and 312.

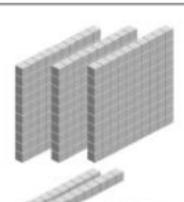
Worksheet 9

Multiplying 3-Digit Numbers

1 Multiply to find:



(b) 323 × 3 =



Use the pictures of the base 10 to help you. You can draw out your own if you need to

2 Fill in the blanks to calculate:

(a) 403 × 2 =

	× 2 =	
--	-------	--

× 2 =

403



4 0 3 × 2

+

(b) 312 × 3 =

× 3 =

× 3 =

× 3 =

	+		+	
--	---	--	---	--

312



3 1 2 × 3

+

3 Multiply.

Extension

Challenge yourself with these activities

$$515 \times 9 =$$

×	500	10	5
9			

Is this statement always true, sometimes true, or never true?

"When you multiply a 3-digit number by a 1-digit number, the answer has 4 digits"

Prove your reasoning with examples

Name: _____ Class: ___ Date: ____

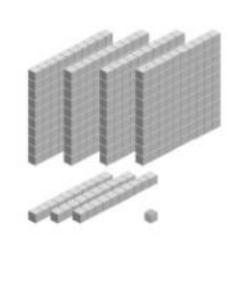
Worksheet 9

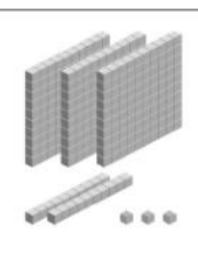
Multiplying 3-Digit Numbers

1 Multiply to find:

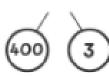
(a)
$$431 \times 2 = 862$$

 $400 \times 2 = 800$
 $30 \times 2 = 60$
 $1 \times 2 = 2$
 $800 + 60 + 2$
 $= 862$

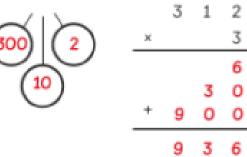




2 Fill in the blanks to calculate:



936



3 Multiply.