# Multiplying 3-Digit Numbers



#### In Focus

Each ticket from London to Middlesbrough costs £116.

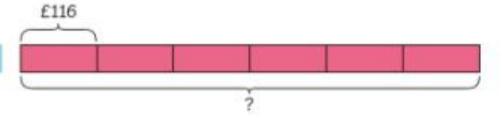


How can we find the cost of 6 tickets from London to Middlesbrough?

#### Let's Learn

0

£116 × 6 =



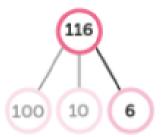
100	10	00000
100	10	00000
100	10	00000
100	10	00000
100	10	00000
100	10	00000

100 × 6 10 × 6

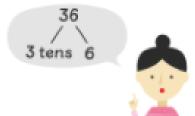
6×6

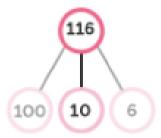
We have 6 lots of 116

The tickets cost £696.



	1	3 1	6
×			6
			6





	6 t	ens+	3 tens	=	9	tens
		3				
	1	1	6			
ж			6			

9

6

 $1 \text{ ten} \times 6 = 6 \text{ tens}$ 



	116	
_/		/_
100	10	6

1 hundred × 6 = 6 hundreds



 $116 \times 6 = 696$ 

Golden rule: Multiply the ones, multiply the tens, multiply the hundreds!

3 8 × 512 =

500	10	2
500	10	2
500	10	2
500	10	2
500	10	2
500	10	2
500	10	2
500	10	2

	×	5	1	2 8
			1	6
			8	0
+	4	0	0	0
	4	0	9	6

multiply the ones multiply the tens multiply the hundreds

### **Guided Practice**





100 × 2 = 30 × 2 = 5 × 2 = 135 × 2 =

$$3 \times 428 = 428 \times 3$$





3 Multiply.

	×	3	1	2 7
+				
i				

4 Multiply.



5 Find the product of 116 and 6.

Can you remember what product means?

Name: \_\_\_\_\_ Class: \_\_\_\_ Date: \_\_\_\_

# Worksheet 10

#### Multiplying 3-Digit Numbers

1 Multiply to find:

(a)	123 × 4 =	(b)	217 × 3 =
	100 × 4 =		200 × 3 =
	20 × 4 =		10 × 3 =
	3 × 4 =		7 × 3 =
	+ +		+ +
	=		=

(c)	719 × 5 =	(d)	806 × 7 =
	700 × 5 =		800 × 7 =
	10 × 5 =		O × 7 =
	9 × 5 =		6 × 7 =
	+ +		+ +
	=		=

Multiply.

+

+

+

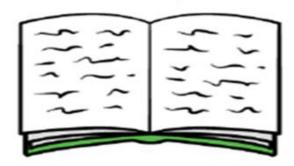
3 Multiply.

Further Multiplication and Division

#### Extension

Challenge yourself with this extension question

Teddy and his mum were having a reading competition. In one month, Teddy read 814 pages.



His mum read 4 times as many pages as Teddy.

How many pages did they read altogether?

How many fewer pages did Teddy read?

Use a bar model to help you

Name: \_\_\_\_\_ Class: \_\_\_\_ Date: \_\_\_\_

## Worksheet 10

#### Multiplying 3-Digit Numbers

1 Multiply to find:

(a)	123 × 4 = 492	(b)	217 × 3 = <b>651</b>
	100 × 4 = 400		200 × 3 = <b>600</b>
	20 × 4 = <b>80</b>		10 × 3 = 30
	3 × 4 = 12		7 × 3 = <b>21</b>
	400 + 80 + 12		600 + 30 + 21
	= 492		= 651
(c)	719 × 5 = <b>3595</b>	(d)	806 × 7 = <b>5642</b>
	700 × 5 = <b>3500</b>		800 × 7 = <b>5600</b>
	10 × 5 = 50		O × 7 = 0
	9 × 5 = <b>45</b>		6 × 7 = 42
	3500 + 50 + 45		5600 + 0 + 42
	= 3595		= 5642

2 Multiply.

#### 3 Multiply.