

Multiply 3-digits by 1-digit

1 Filip uses a place value chart to help him multiply a 3-digit number by a 1-digit number.

Hundreds	Tens	Ones
100	10 10	1 1 1 1
100	10 10	1 1 1 1
100	10 10	1 1 1 1

a) What multiplication is Filip working out?

$$\boxed{124} \times \boxed{3}$$

b) What is the answer to Filip's multiplication?

$$\boxed{372}$$

2 Use place value counters to complete the multiplications.

a) $3 \times 213 = \boxed{639}$

d) $6 \times 106 = \boxed{636}$

b) $4 \times 216 = \boxed{864}$

e) $4 \times 209 = \boxed{836}$

c) $5 \times 106 = \boxed{530}$

f) $317 \times 3 = \boxed{951}$

3 Complete the multiplication.

Use the place value chart to help you.

H	T	O
100 100	10	1 1 1 1 1
100 100	10	1 1 1 1 1
100 100	10	1 1 1 1 1

	H	T	O
	2	1	5
\times			3
	<u>6</u>	<u>4</u>	<u>5</u>
		1	

4 Complete the multiplications.

a)

	H	T	O
	2	1	7
\times			4
	<u>8</u>	<u>6</u>	<u>8</u>
		2	

c)

	H	T	O
	1	0	8
\times			6
	<u>6</u>	<u>4</u>	<u>8</u>
		4	

b)

	H	T	O
	4	3	9
\times			2
	<u>8</u>	<u>7</u>	<u>8</u>
		1	

d) 163×5

	H	T	O
	1	6	3
\times			5
	<u>8</u>	<u>1</u>	<u>5</u>
	3	1	

e) 3×240

		H	T	O	
		2	4	0	
	x			3	
		7	2	0	
		1			

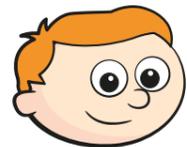
f) 7×131

		H	T	O	
		1	3	1	
	x			7	
		9	1	7	
		2			

- 5 A lorry driver travels 156 km per day.
How many kilometres will the lorry driver have travelled after 3 days?

468km

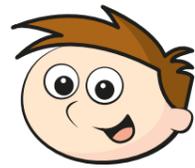
- 6 Ron and Teddy are working out 5×245



Ron

I know the answer will be greater than 1,000 because I know 5×200 is 1,000

I know the answer should end in 5 because I know 5×5 is 25



Teddy

- a) Who is correct? Circle your answer.

Ron Teddy both neither

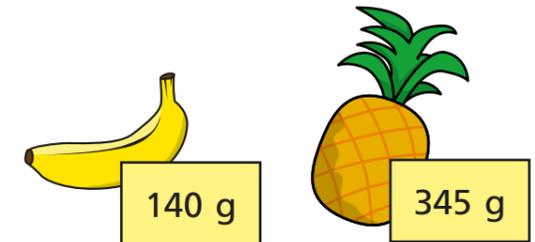
- b) Use a written method to work out 5×245

1,225

- 7 There are 7 year groups in a school.
There are 112 children in each year group.
How many children are there in the whole school?

784

- 8 A banana weighs 140 g
A pineapple weighs 345 g



Bag A contains 8 bananas and bag B contains 3 pineapples.
Which bag weighs more and by how much?
Show your working.

Bag A weighs 85 g more than bag B.

Multiply 4-digits by 1-digit



1 Complete the sentences to describe the multiplication.

Th	H	T	O
1,000 1,000	100 100	10	1 1 1
1,000 1,000	100 100	10	1 1 1
1,000 1,000	100 100	10	1 1 1

There are ones altogether.

There are tens altogether.

There are hundreds altogether.

There are thousands altogether.

$2,213 \times 3 =$

2 Complete the multiplication.

Use the place value chart to help you.

Th	H	T	O
00	0		00
00	0		00
00	0		00
00	0		00

		2	1	0	2	
					4	
		<hr/>				
		8	4	0	8	



3 A football stadium holds 2,214 people.
The stadium is full for 4 matches in a row.
What was the attendance for all 4 matches?

Th	H	T	O
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100	10	1 1

		2	2	1	4	
					4	
		<hr/>				
		8	8	5	6	

The attendance for all 4 matches was

4 Nijah is calculating $2,430 \times 3$
She makes this place value chart to help her.

Th	H	T	O
	100 100	10 10	1 1
		10 10	1
	100 100	10 10	1 1
		10 10	1
	100 100	10 10	1 1
		10 10	1

She gets the answer 729
What mistake has Nijah made?

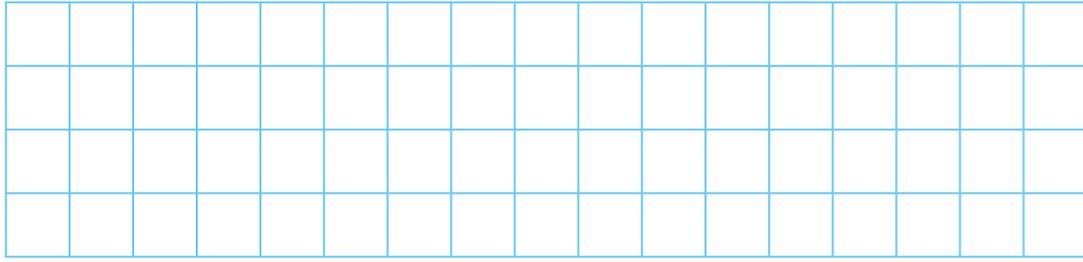
She hasn't put her counters in the correct columns.

What is the correct answer?

5 Complete the multiplications.

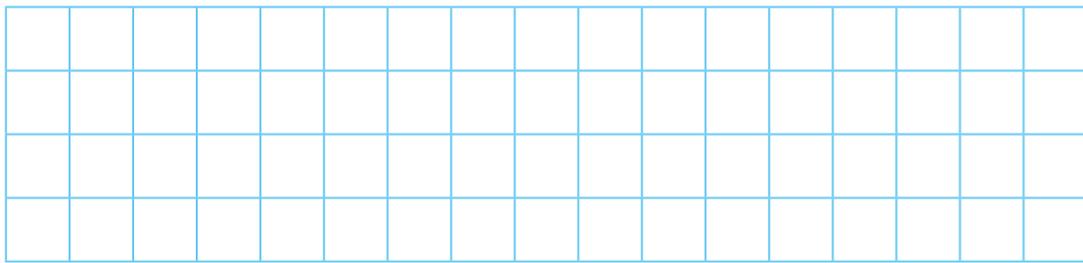
a) $3,126 \times 3 = 9,378$

c) $4,132 \times 6 = 24,792$



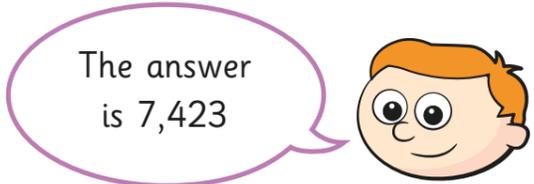
b) $4,812 \times 2 = 9,624$

d) $1,502 \times 5 = 7,510$



6 Ron is working out $7,423 \times 0$

$$\begin{array}{r}
 7\ 4\ 2\ 3 \\
 \times \quad \quad 0 \\
 \hline
 7\ 4\ 2\ 3
 \end{array}$$



Do you agree with Ron? No

Did Ron have to use a column method? Is there a quicker way?

7 Work out these multiplications.

$2,846 \times 2 = 5,692$

$2,846 \times 4 = 11,384$

$2,846 \times 8 = 22,768$

What do you notice about the answers?

8

$248 \times 10 = 2,480$

Without using the formal method, how could you use this fact to calculate 248×9 ?

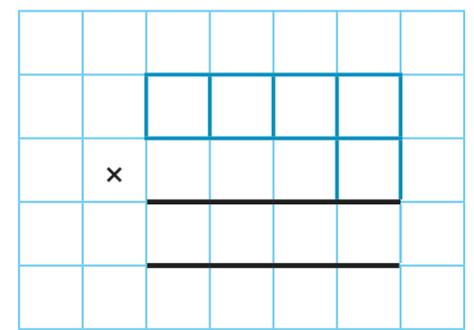
$248 \times 9 = 248 \times 10 - 248 \times 1 = 2,480 - 248 = 2,232$

Check your answer using the formal method.

$$\begin{array}{r}
 248 \\
 \times 9 \\
 \hline
 2232
 \end{array}$$

Which method was easier?

9 Use each digit card once to write a multiplication.



How many different products can you find?

Various answers.

What is the closest product to 8,000?

$8,270$

