

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 9 ones altogether.

There are 3 tens altogether.

There are 6 hundreds altogether.

There are 6 thousands altogether.

$$2,213 \times 3 = \underline{6,639}$$

- 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	
	x				4	
		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	
	x				4	
		8	8	5	6	
				1		

The attendance for all 4 matches was 8,856

- 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
	100 100	10 10	1
	100 100	10 10	1 1
	100 100	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?

7,290

5 Complete the multiplications.

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

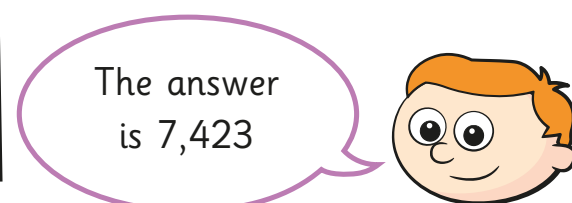
c) $4,132 \times 6 =$ 24,792

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

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

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

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



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.

1

2

3

4

5

How many different products can you find?

Various answers.

What is the closest product to 8,000?

$8,270$