## Multiply up to a 4-digit number by a 1-digit number



Complete the sentences to describe the multiplication.

| Th    | Н       | Т  | 0   |
|-------|---------|----|-----|
| 1,000 | 100 100 | 10 | 111 |
| 1,000 | 100 100 | 10 | 111 |
| 1,000 | 100 100 | 10 | 111 |

There are ones altogether.

There are tens altogether.

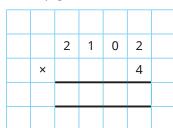
There are hundreds altogether.

There are thousands altogether.

2,213 × 3 =

2 Complete the multiplication.

Use a place value chart to help you.





A football stadium holds 2,214 people.

The stadium is full for four matches in a row.

What was the attendance for all four matches?

| Th    | Н       | Т  | 0   |
|-------|---------|----|-----|
| 1,000 | 100 100 | 10 | 1 1 |
| 1,000 | 100 100 | 10 | 1 1 |
| 1,000 | 100 100 | 10 | 1 1 |
| 1,000 | 100 100 | 10 | 1 1 |

|   | 2 | 2 | 1 | 4 |  |
|---|---|---|---|---|--|
| × |   |   |   | 4 |  |
|   |   |   |   |   |  |
|   |   |   |   |   |  |

4 Nijah is calculating 2,430 × 3

She makes this place value chart to help her.

| Th | Н       | Т           | 0   |
|----|---------|-------------|-----|
|    | 100 100 | 10 10 10 10 | 1 1 |
|    | 100 100 | 10 10       | 1 1 |
|    | 100 100 | 10 10 10    | 1 1 |

She gets the answer 729

What mistake has Nijah made?

What is the correct answer?

## Multiply up to a 4-digit number by a 1-digit number



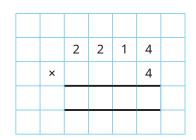
A football stadium holds 2,214 people.



The stadium is full for four matches in a row.

What was the attendance for all four matches?

|       |         | 1  | ĺ   |
|-------|---------|----|-----|
| Th    | Н       | Т  | 0   |
| 1,000 | 100 100 | 10 | 1 1 |
| 1,000 | 100 100 | 10 | 1 1 |
| 1,000 | 100 100 | 10 | 11  |
| 1,000 | 100 100 | 10 | 1 1 |



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

| Th | Н       | Т           | 0   |  |
|----|---------|-------------|-----|--|
|    | 100 100 | 10 10       | 1 1 |  |
|    | 100 100 | 10 10 10 10 | 1 1 |  |
|    | 100 100 | 10 10 10 10 | 1 1 |  |

She gets the answer 729

What mistake has Nijah made?

What is the correct answer?

- Work out the multiplications.
  - a)  $3,126 \times 3$

**c)** 4,132 × 6

**b)** 4,812 × 2

- **d)** 1,502 × 5
- Ron is working out  $7,423 \times 0$



|   | 7 | 4 | 2 | 3 |  |
|---|---|---|---|---|--|
| × |   |   |   | 0 |  |
|   | 7 | 4 | 2 | 3 |  |

Do you agree with Ron?

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



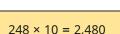
Work out the multiplications.

 $2.846 \times 2$ 

 $2.846 \times 4$ 

 $2.846 \times 8$ 

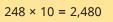
What do you notice about the answers?



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

Check your answer using the formal method.

Which method was easier?



Use each digit card once to write a multiplication.



List all the different products you can find. What is the closest product to 8,000?

