Multiply 2-digits by 1-digit

1 Brett uses a place value chart to work out 5 × 32

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

100 10

Talk about Brett's method with a partner.

Complete the multiplication.

5 × 32 = ☐

Use Brett's method to work out 6 × 34

6 × 34 = ☐

2 Rosie works out 4 × 37 using a written method.

		H	T	O						
			3	7						
	×			4						
			2	8			(7	x	4)	
		1	2	0		(3	0	x	4)	
		1	4	8						

Talk about Rosie's method with a partner.

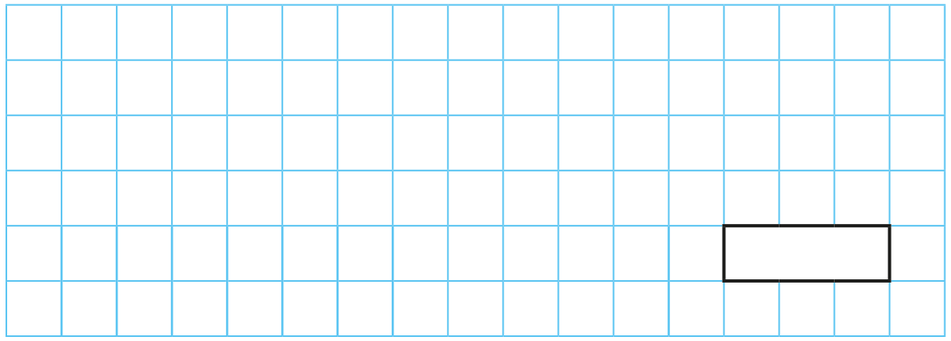
Use Rosie's method to work out 6 × 28

3 Dani uses a different written method to work out 8 × 42

		H	T	O	
			4	2	
	×			8	
		3	3	6	
			1		

Talk about Dani's method with a partner.

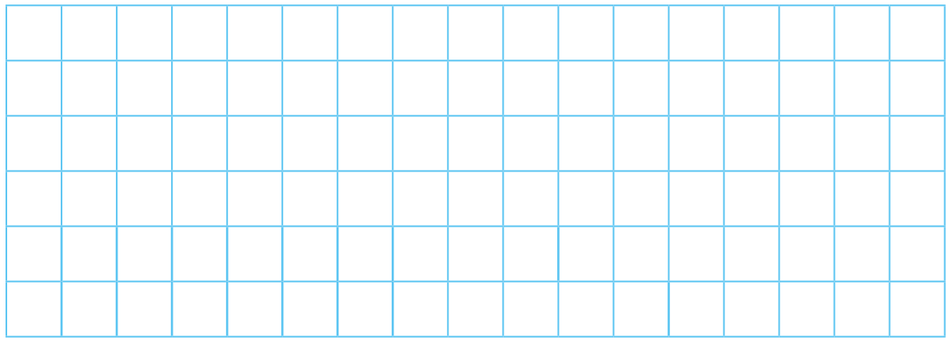
Use Dani's method to work out 3 × 27



4 Use a written method to complete the multiplications.

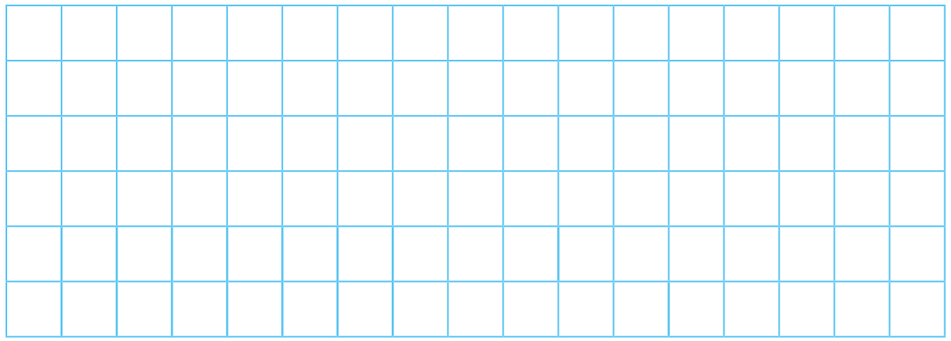
a) 38 × 6 = ☐

c) 45 × 9 = ☐



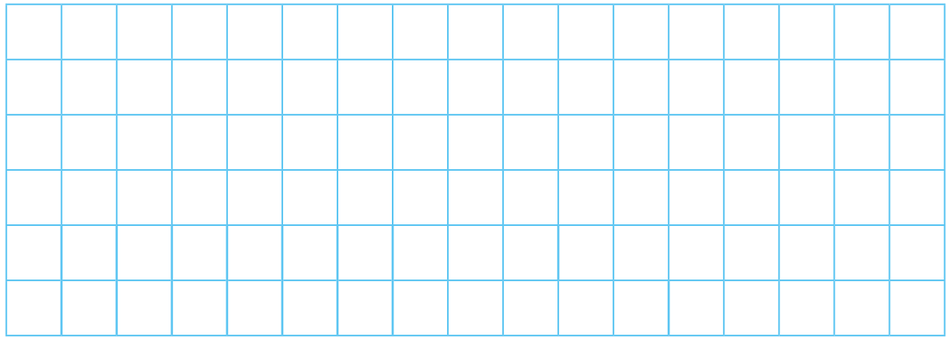
b) 71 × 3 = ☐

d) 52 × 5 = ☐



e) 29 × 8 = ☐

f) 17 × 4 = ☐



5 Class 4 is selling tickets for a play.

Tickets cost £5 per person.

56 tickets have been sold so far.

How much money has Class 4 collected?

☐

6 Rosie buys 8 bunches of flowers. Each bunch has 17 flowers.

How many flowers does she have altogether?

☐

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?

☐ × ☐

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

2 Use place value counters to complete the multiplications.

a) 3 × 213 = ☐

b) 4 × 216 = ☐

c) 5 × 106 = ☐

d) 6 × 106 = ☐

e) 4 × 209 = ☐

f) 317 × 3 = ☐

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
×			3

4 Complete the multiplications.

a)

	H	T	O
	2	1	7
×			4

b)

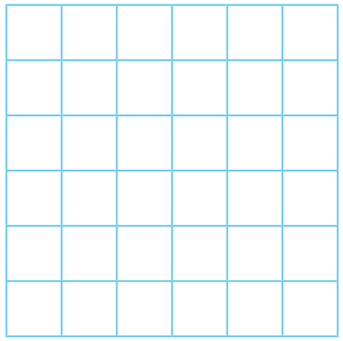
	H	T	O
	4	3	9
×			2

c)

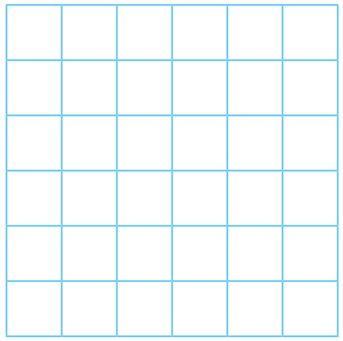
	H	T	O
	1	0	8
×			6

d) 163 × 5

e) 3 × 240



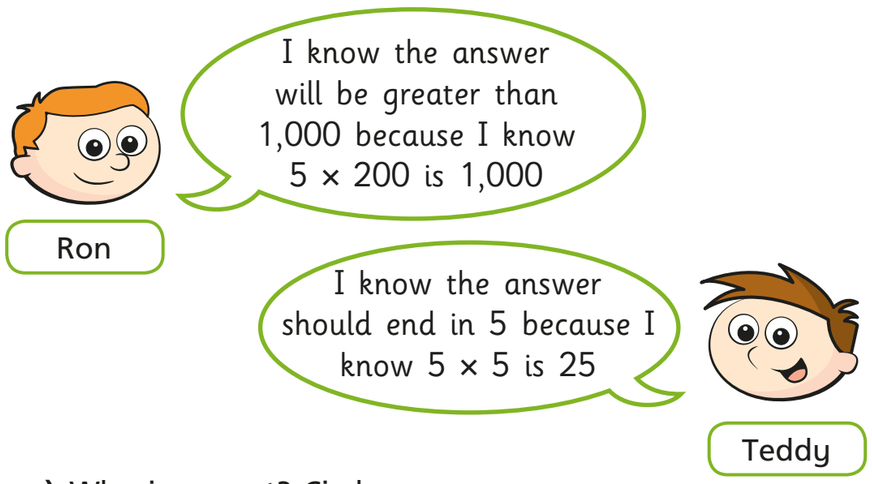
f) 7 × 131



5 A lorry driver travels 156 km per day.

How many kilometres will the lorry driver have travelled after 3 days?

6 Ron and Teddy are working out 5 × 245



a) Who is correct? Circle your answer.

Ron **Teddy** **both** **neither**

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

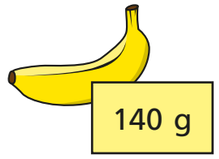
7 There are 7 year groups in a school.

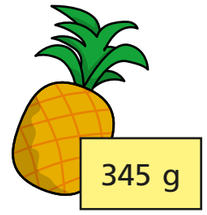
There are 112 children in each year group.

How many children are there in the whole school?

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 _____ weighs ☐ g more than bag _____.

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 × 3 = ☐

2 Complete the multiplication.

Use the place value chart to help you.

Th	H	T	O

		2	1	0	2	
	×				4	

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 1
1,000 1,000	100 100	10	1 1 1 1
1,000 1,000	100 100	10	1 1 1 1
1,000 1,000	100 100	10	1 1 1 1

		2	2	1	4	
	×				4	

The attendance for all 4 matches was ☐

4 Nijah is calculating 2,430 × 3

She makes this place value chart to help her.

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

She gets the answer 729

What mistake has Nijah made?

What is the correct answer? ☐

5 Complete the multiplications.

a) 3,126 × 3 = ☐

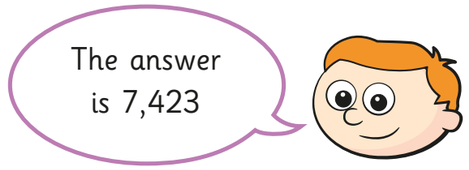
c) 4,132 × 6 = ☐

b) 4,812 × 2 = ☐

d) 1,502 × 5 = ☐

6 Ron is working out 7,423 × 0

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



Do you agree with Ron? _____

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

7 Work out these multiplications.

2,846 × 2 = ☐

2,846 × 4 = ☐

2,846 × 8 = ☐

What do you notice about the answers?

8

248 × 10 = 2,480

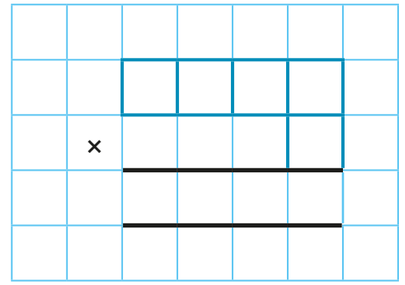
Without using the formal method, how could you use this fact to calculate 248 × 9?

Check your answer using the formal method.

Which method was easier?

9 Use each digit card once to write a multiplication.

1	2	3	4	5



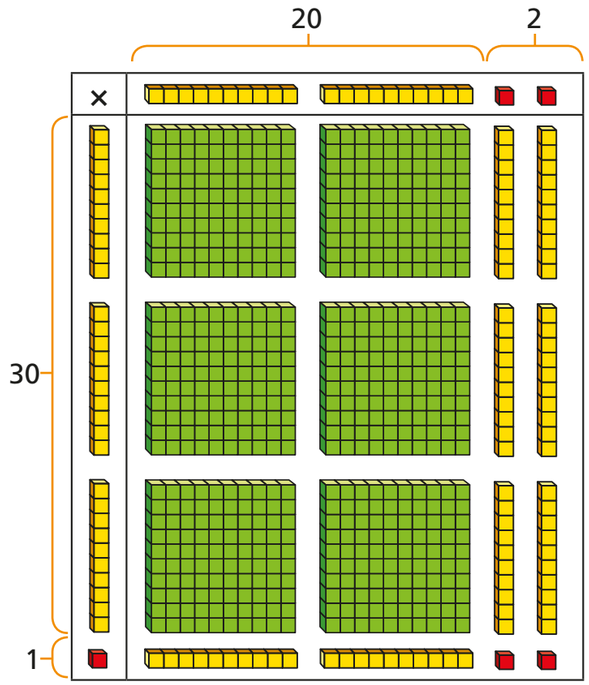
How many different products can you find?

What is the closest product to 8,000? ☐

Multiply 2-digits (area model)

1 Kim is using base 10 to work out 31 × 22

Use Kim's model to help you complete the sentences.



There are ☐ ones altogether.

There are ☐ tens altogether.

There are ☐ hundreds altogether.

31 × 22 = ☐

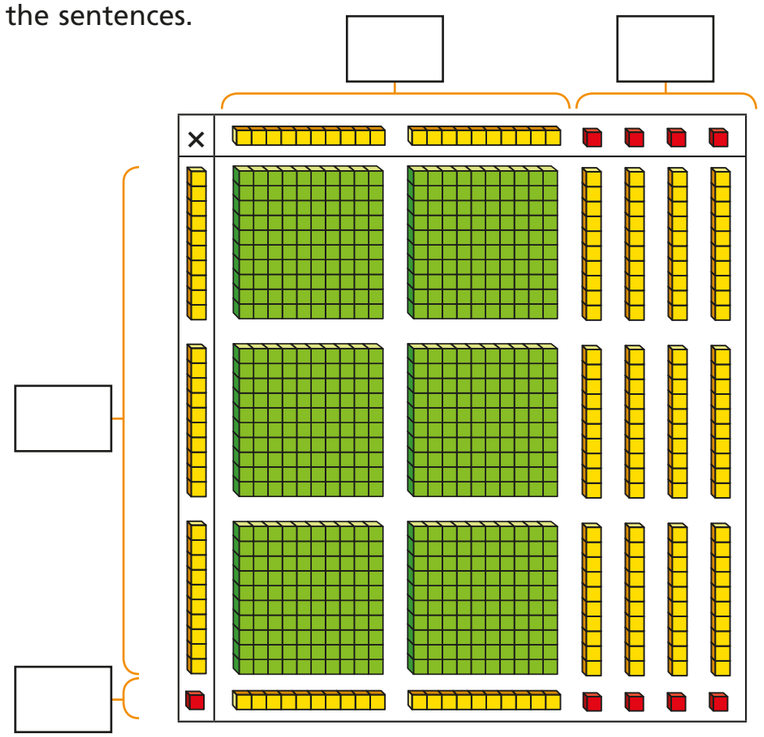
2 Use base 10 to work out the multiplications.

a) 12 × 14 = ☐

b) 23 × 13 = ☐

3 Amir is using base 10 to calculate 31 × 24

a) Add the missing information to the area model and complete the sentences.



There are ☐ ones altogether.

There are ☐ tens altogether.

There are ☐ hundreds altogether.

b) Describe any exchanges you need to make.

_____

_____

c) Complete the multiplication.

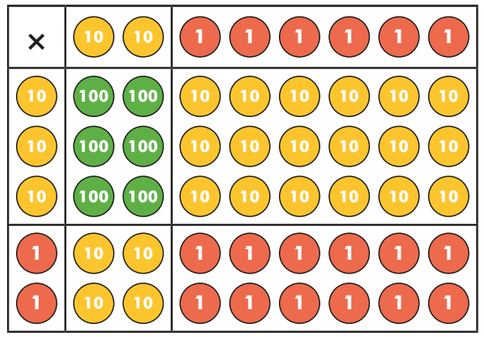
31 × 24 = ☐

4 Use base 10 to work out these multiplications.

a) 25 × 15 = ☐

b) 36 × 12 = ☐

5 Use the place value counters to complete the multiplication grid and sentence.



×	20	6
30		
2		

26 × 32 = ☐

6 Use an area model to help you complete the multiplication.

a) 28 × 14 = ☐

×	20	8
10		
4		

b) 27 × 16 = ☐

×		

c) 35 × 22 = ☐

d) 45 × 36 = ☐

7 Complete the multiplications.

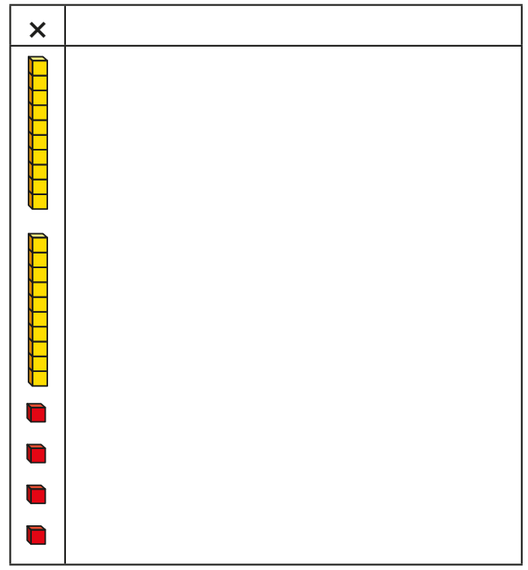
21 × 24 = ☐

31 × 25 = ☐

18 × 26 = ☐

8 24 × ☐ = 768

Complete the area model to find the missing number.



9 Use each digit card once to write a multiplication.

2	3	4	5

☐ × ☐ = ☐

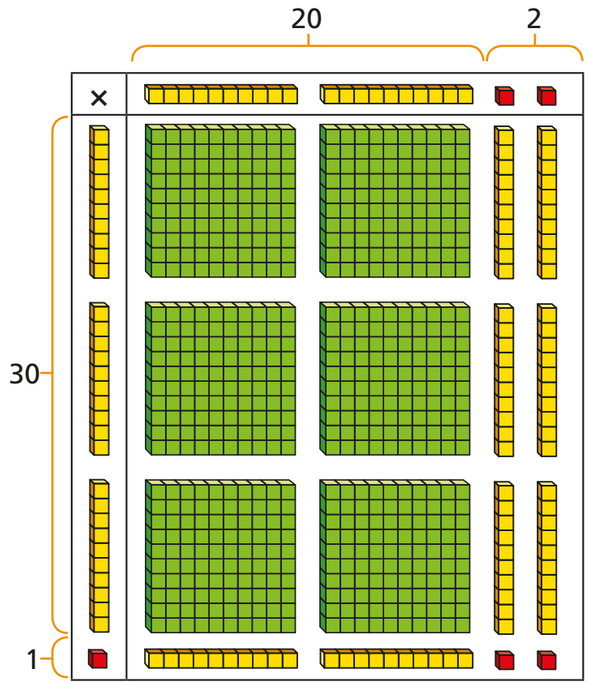
How many different answers can you find?

How many products are there between 1,000 and 1,500?

Multiply 2-digits (area model)

1 Kim is using base 10 to work out 31 × 22

Use Kim's model to help you complete the sentences.



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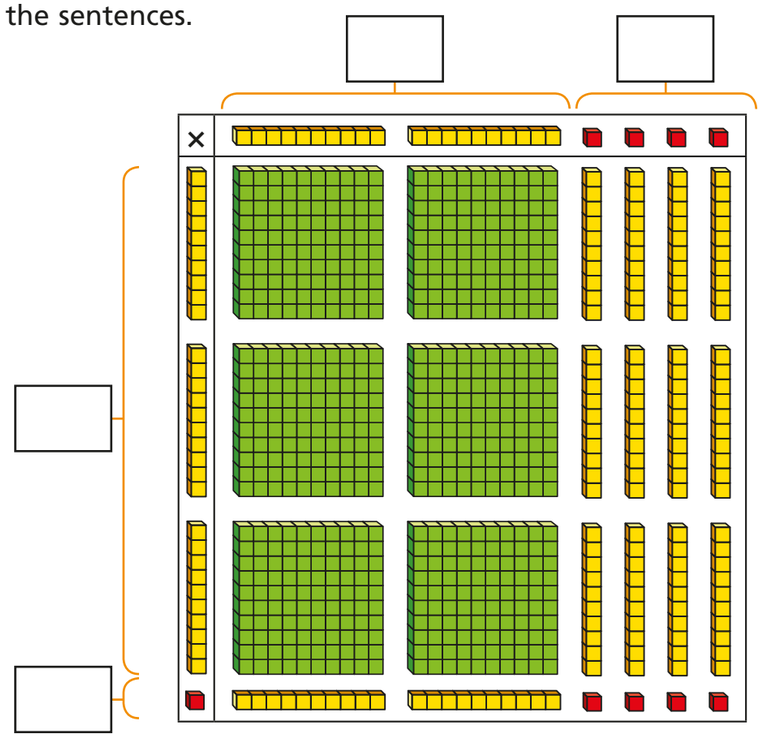

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b) Describe any exchanges you need to make.

_____

_____

c) Complete the multiplication.

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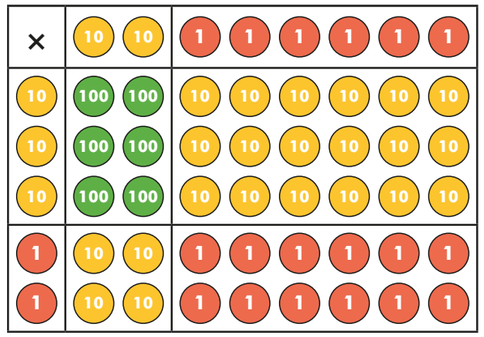

×	20	6
30		
2		

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4		

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×		

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7 Complete the multiplications.

21 × 24 = ☐

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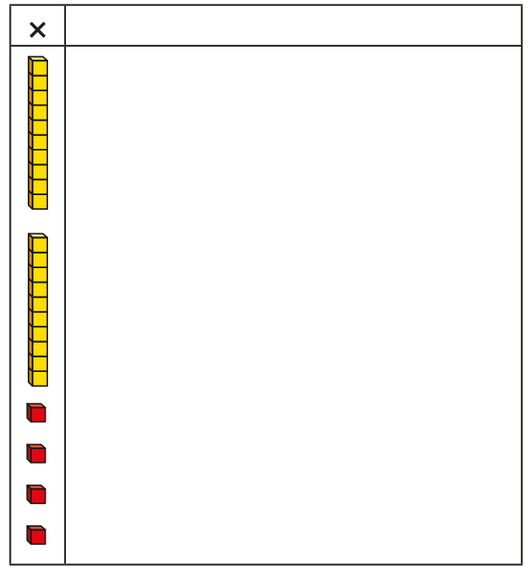

9 Use each digit card once to write a multiplication.

2	3	4	5

☐ × ☐ = ☐

How many different answers can you find?

How many products are there between 1,000 and 1,500?