Multiply 2-digits by 1-digit



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

Hundreds	Tens	Ones
	10 10 10	
	10 10 10	10
	10 10 10	11
	10 10	00
	10 10 10	
100	110	

Talk about Brett's method with a partner.

Complete the multiplication.

Use Brett's method to work out 6 × 34





Rosie works out 4×37 using a written method.

	Н	Τ	0					
		3	7					
×			4					
		2	8		(7	Χ	4)	
	1	2	0	(3	0	Χ	4)	
	1	4	8					

Talk about Rosie's method with a partner.

Use Rosie's method to work out 6 x 28

	2	8									
×		6									
	4	8		メ							
1	2	0	(2	OX	6)			l	6	8	
1	6	8			ĺ						

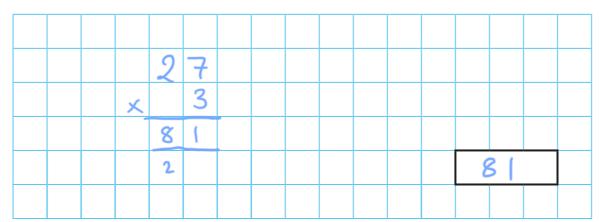
Dani uses a different written method to work out 8×42

	Н	Т	0	
		4	2	
×			8	
	3	3	6	
		1		

Talk about Dani's method with a partner.

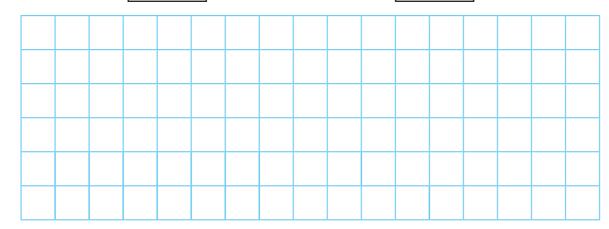


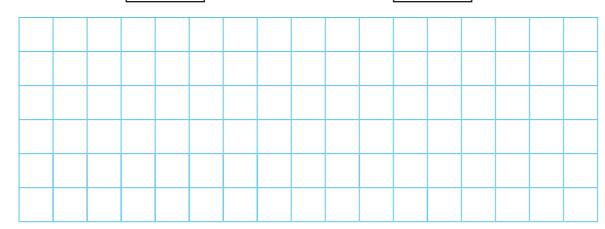
Use Dani's method to work out 3×27

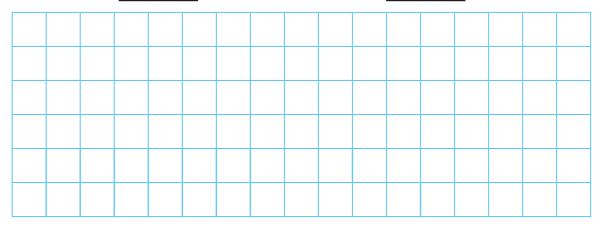


4 Use a written method to complete the multiplications.

c)
$$45 \times 9 = 405$$







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?

£280

Rosie buys 8 bunches of flowers. Each bunch has 17 flowers. How many flowers does she have altogether?

136

Multiply 3-digits by 1-digit



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	
100	10 10	
100	10 10	

a) What multiplication is Filip working out?

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

372

2 Use place value counters to complete the multiplications.

Complete the multiplication.

Use the place value chart to help you.

Н	Т	0
100 100	10	
100 100	10	
100 100	10	

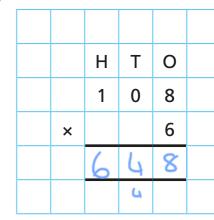
	Н	Т	0	
	2	1	5	
×			3	
	6	4	5	
		1		

4 Complete the multiplications.

a)

		Н	Т	0	
		2	1	7	
	×			4	
		8	6	8	
			2		

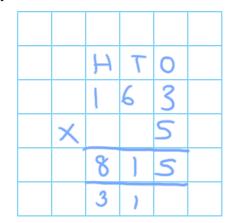
c)



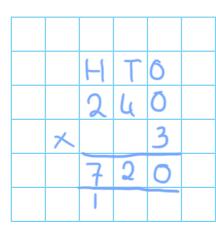
b)

	Н	Т	0	
	4	3	9	
×			2	
	8	7	8	
		-		

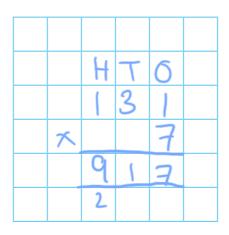
d) 163 × 5



e) 3 × 240



f) 7 × 131



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



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

Ron

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



neither

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

1,225

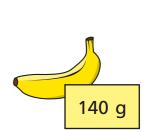
7 There are 7 year groups in a school.

There are 112 children in each year group.

How many children are there in the whole school?

784

A banana weighs 140 gA 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.

Show your working.

Bag A weighs 85 g more than bag B.

Multiply 4-digits by 1-digit



Complete the sentences to describe the multiplication.

0	0	
		1

Th H T O

1.000 1.000 100 100 10 11 11 11

1.000 1.000 1.000 100 100 10 11 11 11

1.000 1.000 1.000 100 100 10 11 11 11

There are ones altogether.

There are 3 tens altogether.

There are 6 hundreds altogether.

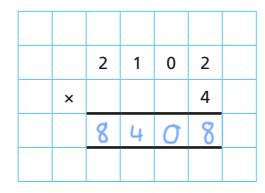
There are 6 thousands altogether.

2,213 × 3 = 6,639

Complete the multiplication.

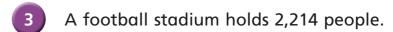
Use the place value chart to help you.

Th	Н	Т	0
00	0		00
00	0		00
00	0		00
00	0		00





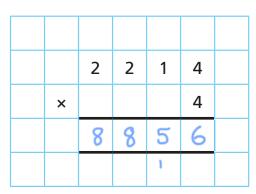




The stadium is full for 4 matches in a row.

What was the attendance for all 4 matches?

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



The attendance for all 4 matches was

8,856

4 Nijah is calculating 2,430 × 3

She makes this place value chart to help her.

Th	Н	Т	0
	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.

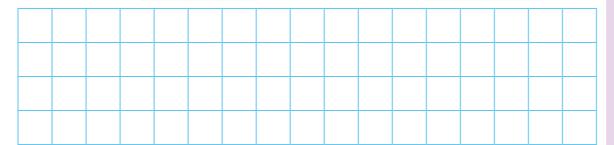
What is the correct answer?

7,290

Complete the multiplications.

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

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





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

The answer is 7,423



Do you agree with Ron? No

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



What do you notice about the answers?



$$248 \times 10 = 2,480$$



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.

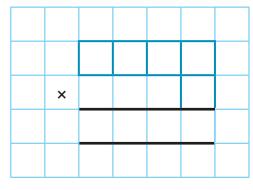
4











How many different products can you find?

Various answers.

What is the closest product to 8,000?

8,270

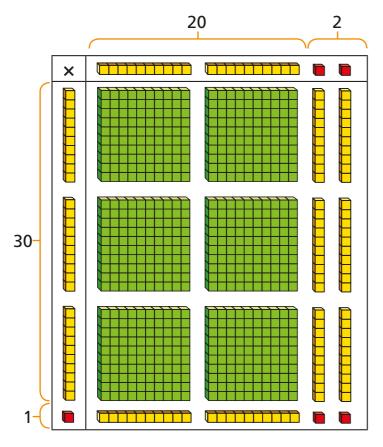


Multiply 2-digits (area model)



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

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



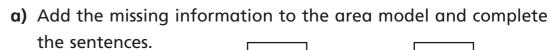
There are 2 ones altogether.

There are 8 tens altogether.

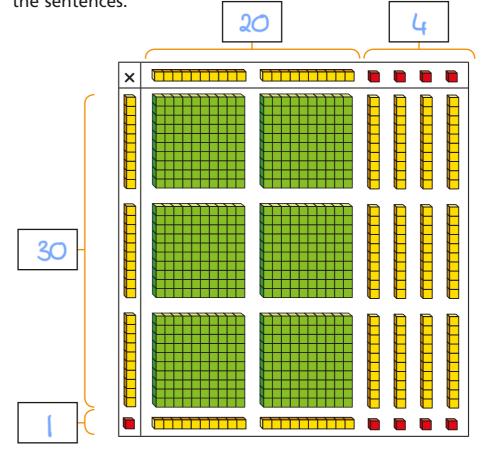
There are 6 hundreds altogether.











There are 4 ones altogether.

There are tens altogether.

There are hundreds altogether.

b) Describe any exchanges you need to make.



c) Complete the multiplication.



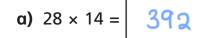


Use the place value counters to complete the multiplication grid and sentence.

×	10 10	
10	100 100	10 10 10 10 10
10	100 100	10 10 10 10 10
10	100 100	10 10 10 10 10
1	10 10	
1	10 10	

×	20	6
30	600	180
2	40	ıa

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

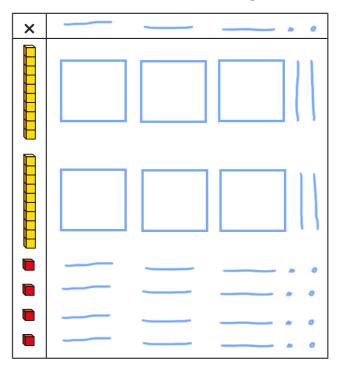


c)	35 × 22 =	770
C)	33 × 22 =	7 10

×	20	8
10	200	80
4	% O	32

×	20	7
10	500	70
6	120	U 2

Complete the area model to find the missing number.







How many different answers can you find?

Various answers

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











1 Complete the multiplications.

a)
$$6 \times 6 = 36$$

How did you work out your answers?



2 Fill in the missing numbers.

a)



c)

 (43×3)

 (43×10)

۲)					
			2	1	
	×		2	5	
		1	0	5	(21 × 5)
		4	2	0	(21 × 20)
		5	2	5	

b)

_					
			2	1	
	×		1	6	
		1,	2	6	
		2	1	0	
		3	3	6	

Mo is calculating 34 × 2.

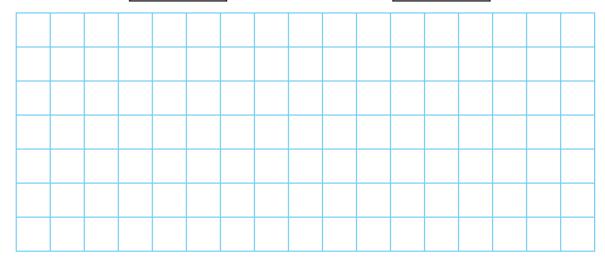
Here is his working.

× 23	×		3 2	4
		1,	0,	2
			6	8
		1	7,	0

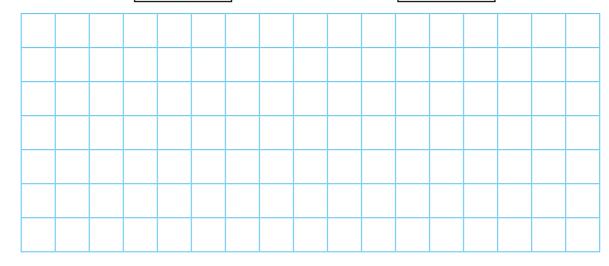
What mistake has Mo made?
What is the correct answer?
You may use the blank grid
for your workings.

		3	4		
人		2	3		
	١	O	2		
	6	8	O		
· ·	7	8	2		

- 4 Work out the multiplications.
 - a) 52 × 34 = 1,768
- c) 46 × 64 = 2,944



- b) 22 × 56 = 1,232
- d) 47 × 63 = 2,96 (

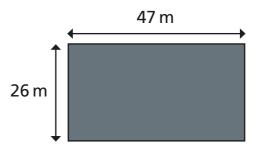


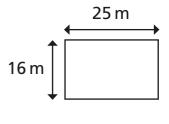
A machine prints 92 labels every minute.

How many labels will it print in three-quarters of an hour?

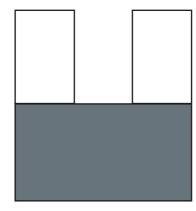
4,140

6 Here are two rectangles.





a) What is the area of this compound shape?



2,022 m²

b) What is the area of the shaded part?



822m2

Compare methods and answers with a partner.

What is the same and what is different?



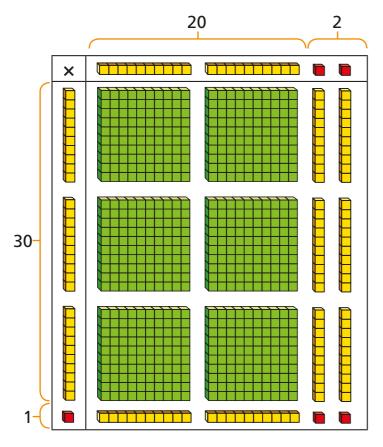


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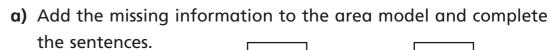
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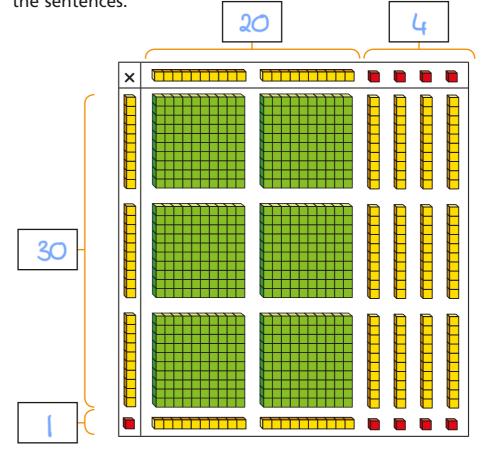
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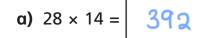


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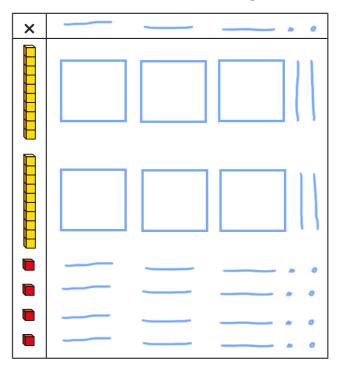


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