

22.01.21

WALT: Multiply 2 digits by 2 digits

Vocabulary check

multiply
multiplicand
multiplier
product
place value

$$\begin{array}{r} 15 \\ \times 2 \\ \hline 30 \end{array}$$

multiplicand
multiplier
product

Thousands	Hundreds	Tens	Ones

$$15 \times 14 =$$

$$(15 \times 10) + (15 \times 4)$$

\times	10	5
10		
4		

$$\begin{array}{r} \times 15 \\ 14 \\ \hline \\ \hline \end{array}$$

I do

$$24 \times 32 =$$

$$(24 \times 30) + (24 \times 2) =$$

×	20	4
30		
2		

$$\begin{array}{r} 24 \\ \times 32 \\ \hline \\ \hline \end{array}$$

There are 16 shelves in the library. Each shelf holds 45 books. How many books are there in total.

$$45 \times 16 =$$

$$(45 \times 10) + (45 \times 6)$$

\times	40	5
10		
6		

$$\begin{array}{r} \times 45 \\ 16 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ \times 23 \\ \hline 201 \end{array}$$

1. Multiply by the one's place

$$(67 \times 3)$$

$$\begin{array}{r} 67 \\ \times 23 \\ \hline 201 \\ 0 \end{array}$$

2. Put a zero to hold the one's place

$$\begin{array}{r} 67 \\ \times 23 \\ \hline 201 \\ 1340 \end{array}$$

3. Multiply by the ten's place

$$(67 \times 20)$$

$$\begin{array}{r} 67 \\ \times 23 \\ \hline 201 \\ 1340 \\ \hline 1541 \end{array}$$

4. Add the numbers

$$(67 \times 3) + (67 \times 20)$$

$$\begin{array}{r} 37 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ \times 23 \\ \hline 201 \end{array}$$

1. Multiply by the one's place

$$\begin{array}{r} 67 \\ \times 23 \\ \hline 201 \\ 0 \end{array}$$

2. Put a zero to hold the one's place

$$\begin{array}{r} 67 \\ \times 23 \\ \hline 201 \\ 1340 \\ \hline 1541 \end{array}$$

3. Multiply by the ten's place

$$\begin{array}{r} 67 \\ \times 23 \\ \hline 201 \\ 1340 \\ \hline 1541 \end{array}$$

4. Add the numbers

You do

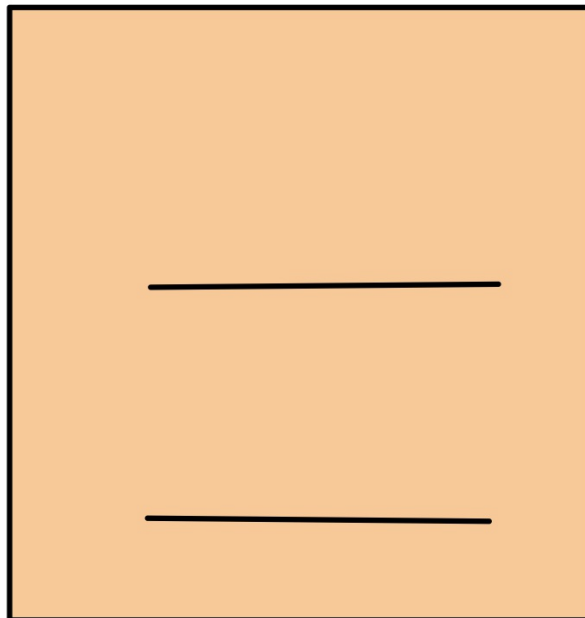
$$\begin{array}{r} \times 46 \\ 32 \\ \hline \end{array}$$

$45 \times 24 = \boxed{}$

$42 \times 35 = \boxed{}$

There are 32 biscuits in each packet.
How many biscuits in 24 packets?

You do



What mistake has been made here?

	¹ 2		
	3	7	
×	2	3	
<hr/>			
1	1	1	(37 × 3)
	7	4	(37 × 20)
<hr/>			
1	8	5	
<hr/>			

Hinge

Which of these is correct for $54 \times 32 =$

A. 270

B. 1728

C. 260

D I'm not sure

Try it

1) Complete these calculations.

a)

		3	2
	×	4	3
<hr/>			
		9	6
<hr/>			

(32 × 3)

b)

		5	4
	×	2	7
<hr/>			
<hr/>			

(54 × 7)

(54 × 20)

Use the formal written method to calculate these

2. $45 \times 13 =$

5. $51 \times 24 =$

3. $26 \times 42 =$

6. $65 \times 23 =$


4. $51 \times 29 =$

7. $93 \times 53 =$

Use it

1. A school kitchen uses 53 bags of potatoes every week. How many bags do they use in 12 weeks?
2. A bath holds 48 litres of water. How many litres does it take to fill 32 baths?
3. In the library there are 63 book shelves. Each shelf holds 34 books. How many books are there in total?
4. There are 35 biscuits in each packet. How many 8 year olds could each have a biscuit if there were 24 packets?

5. Amir has multiplied 47 by 36



		4	7
x		3	6
	2	8	2
	1	4	1
	3	2	3

Alex says,



Amir is wrong because the answer should be 1,692 not 323

Who is correct?

What mistake has been made?

Prove it

Tommy says,



It is not possible to
make 999 by
multiplying two 2-digit
numbers.

Do you agree?
Explain your answer.

To solve this you will
need to use trial and
error and a systematic
approach.