

28.01.21

WALT: Use the grid method to multiply 3 digits x 2 digits





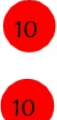
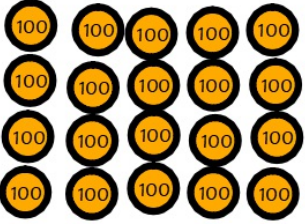
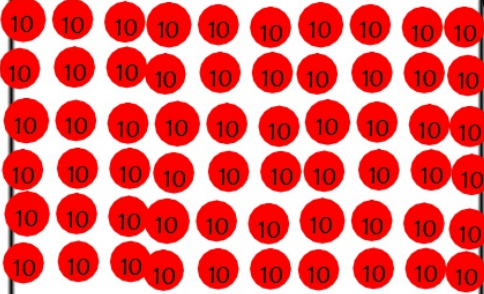
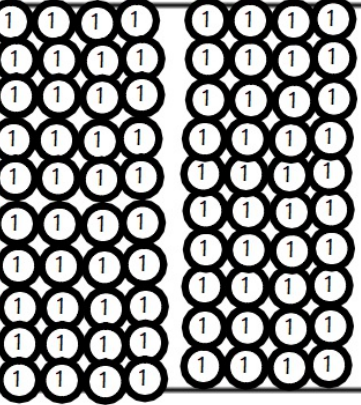


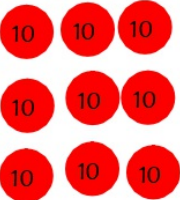
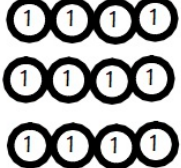
Vocabulary check

multiply
multiplicand
multiplier
product
place value
grid method
partitioning
distributive law
area model

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

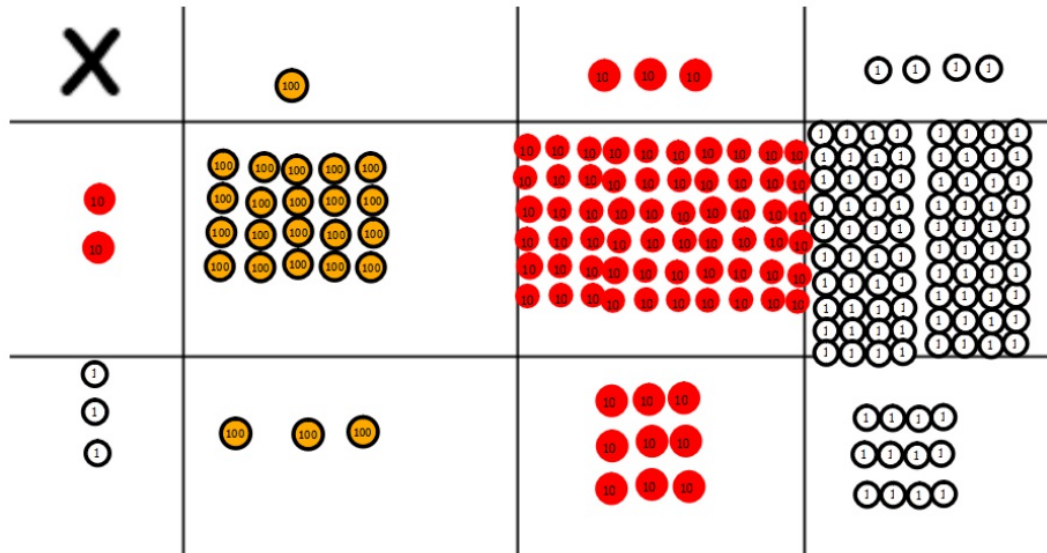
multiplicand
multiplier
product

Thousands	Hundreds	Tens	Ones

What is this showing?

How is it different to what we looked at yesterday?



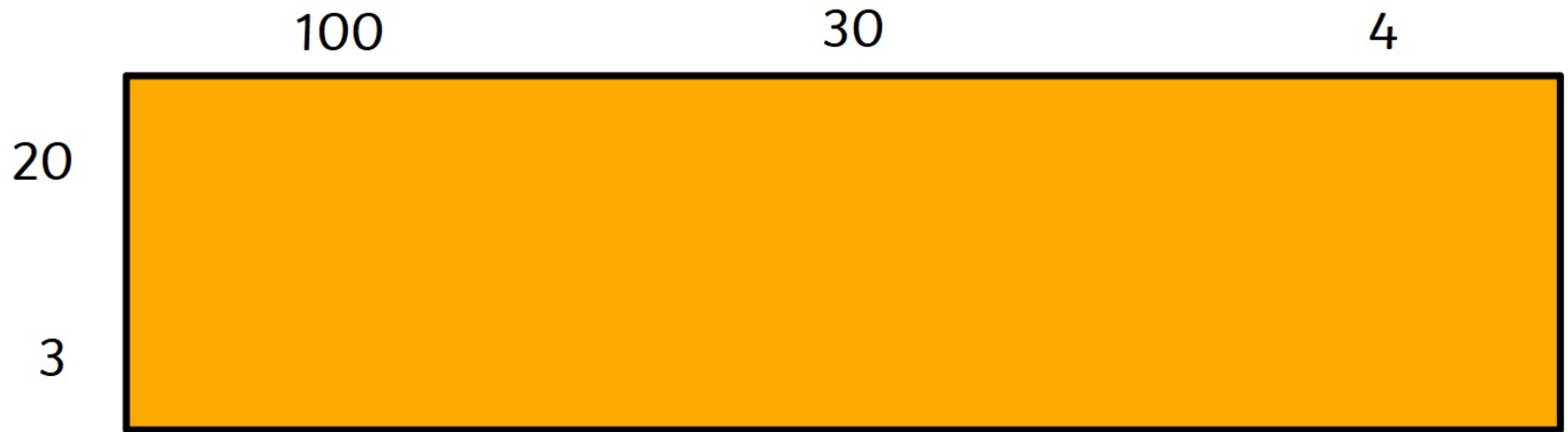
$$134 \times 23 =$$

Why is this tricky to represent as an array?

134

23





X	100	30	4
20			
3			

134 x 23 =

I do

$$245 \times 53 =$$

X	200	40	5
50			
3			

we do

$$354 \times 63 =$$

X			

You do $437 \times 25 =$

X			

$$274 \times 34 = \boxed{}$$

$$582 \times 21 = \boxed{}$$

Hinge:

Which of these is the correct answer to $236 \times 45 =$

A

X	2	30	6	
40	80	1200	240	1520
5	10	150	35	195

195
= 1715

B

X	200	30	6	
40	8000	1200	240	9480
5	1000	150	30	1185

1185
= 10665

C

X	200	30	6	
40	8000	1200	240	9440
5	1000	150	30	1180

1180
10620

D I'm not sure



Try it

1. $541 \times 34 =$

x	500	40	1
30			
4			

=

2. $438 \times 91 =$

x	400	30	8
90			
1			

=

3. $801 \times 21 =$

x			

=

4. $401 \times 76 =$

x			

=

Use the grid method to calculate these:

5. $263 \times 23 =$

6. $184 \times 32 =$

7. $507 \times 24 =$

8. $628 \times 53 =$

Use it

Use the grid method to calculate the answers to these problems.

1. A cafe sells 24 cups of lemonade each containing 175ml. How much lemonade do they sell.
2. Bob runs 256 metres every day. How far does he run in 2 weeks.
3. Poppy saves £253 every month. How much does she save in 1 year.

Prove it

1. Explain the mistakes made in this calculation.

X	200	30	6	
40	8000	1200	240	9480
5	1000	150	30	1185
				<u>10665</u>

2. Tommy says it doesn't matter if you add the columns or the rows then add the answers together. Is he correct and why?