Vocabulary check

multiply
multiplicand
multiplier
product
place value
grid method
partitioning
distributive law

$$15 \quad \text{multiplicand}$$
$$x \quad 2 \quad \text{multiplier}$$
$$30 \quad \text{product}$$

Thousands	Hundreds	Tens	Ones

What do these images show?
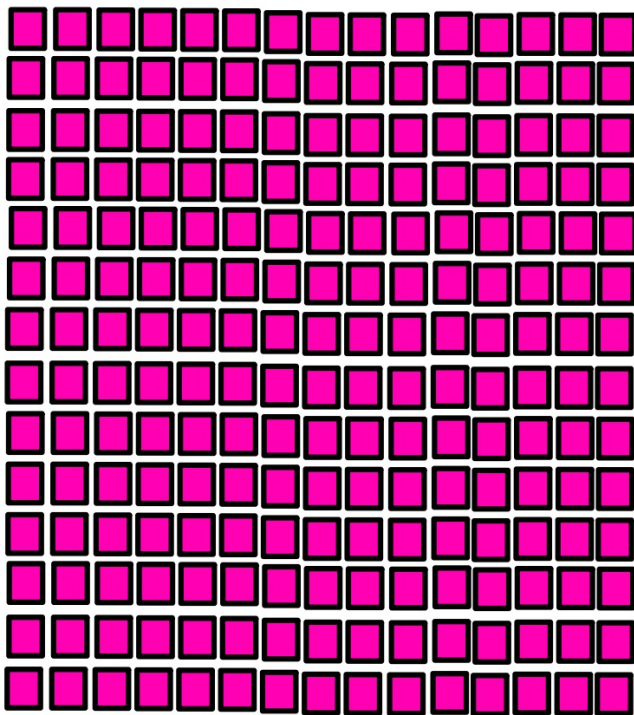
What is the same and what is different?

15 x 14 =
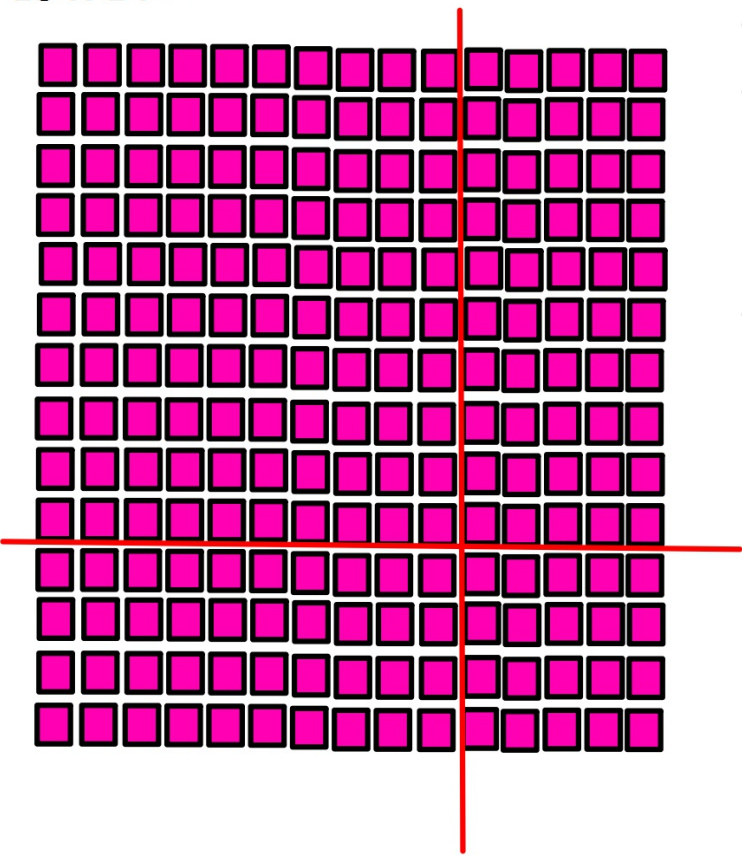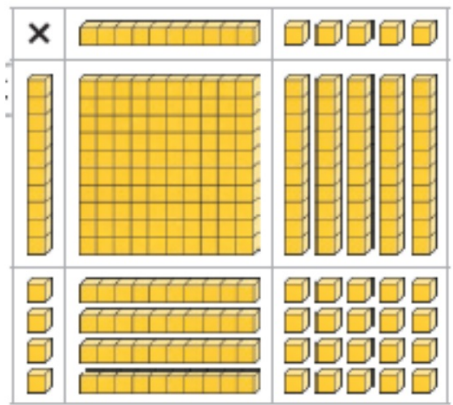
How does this link to the grid method?

15 x 14 =

10   5

10

4
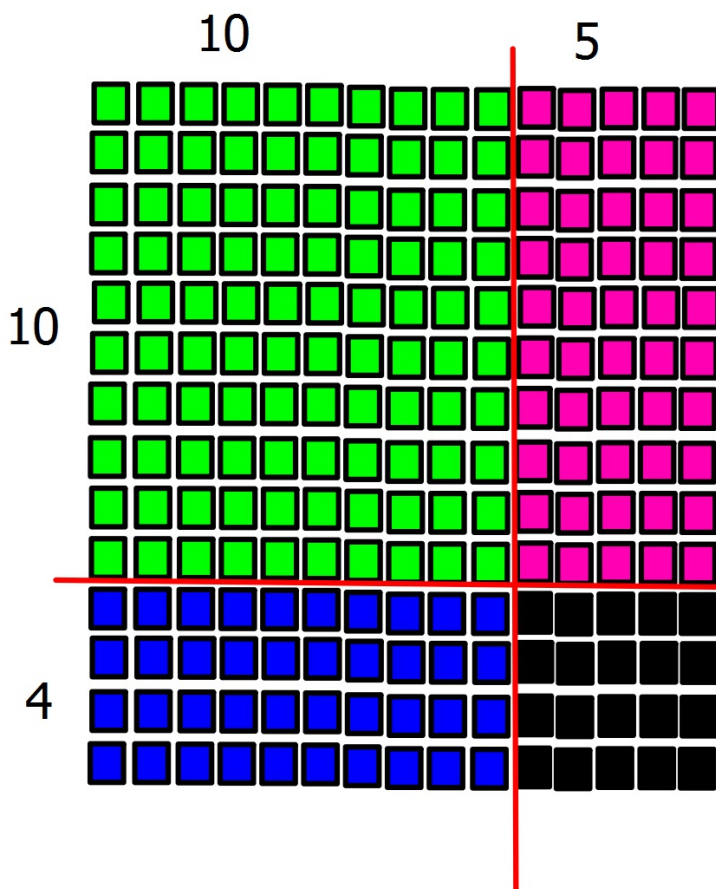
(10 x 15) + (4 x 15)

(10 x 10) + (10 x 5)
+ (4 x 10) + (4 x 5) =

×	10	5
10	100	50
4	40	20

What maths skills are we using?

10   5   15 x 14 =

10   (10 x 15) + (4 x 15)
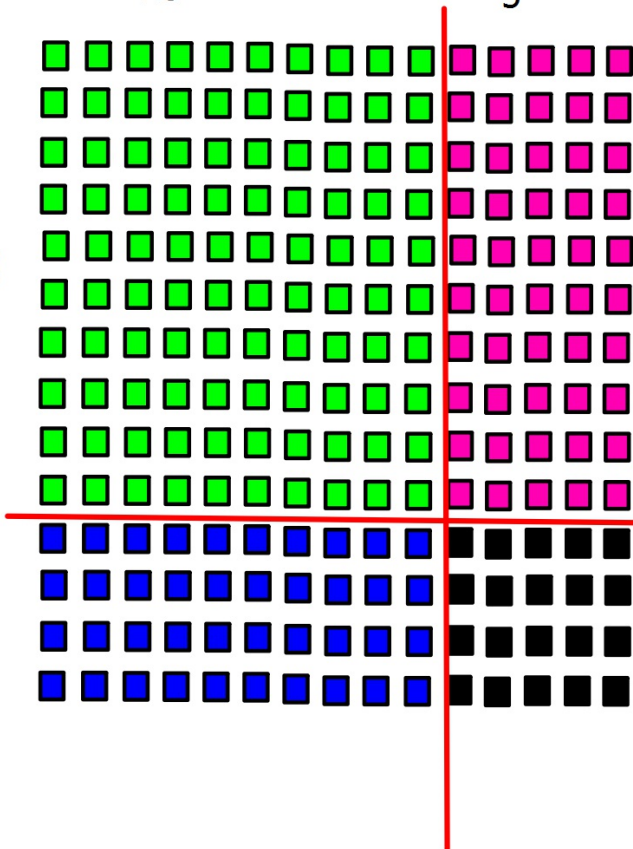
(10 x 10) + (10 x 5)
+ (4 x 10) + (4 x 5) =

×	10	5
10	100	50
4	40	20

(10 x 1

(4 x 1(

=

I do

24 x 32 =

(24 x 30) + (24 x 2) =

(20 x 30) + (4 X 30) +
(20 x 2) + (4 x 2) =
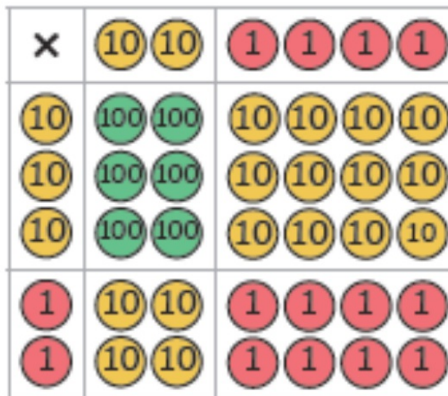
Would this be easy to represent as an array?

×	20	4
30		
2		

=

45 x 16 =

×	40	5
10		
6		

=

×		

=

25 x 23 =

36 x 24 =

51 x 42 =

Hinge

Which of these is correct for 35 x 24 =

A

×	30	5	
20	60	10	70
4	6	20	6

= 76

B

×	30	5	
20	6	100	106
4	12	20	32

= 138

C

×	30	5	
20	600	100	700
4	120	20	140

= 840

D I'm not sure

Try it

1. 65 × 47 =

✖	60	5
40		
7		

=

2. 82 × 49 =

✖	80	2
40		
9		

=

3. 84 × 53 =

✖		

=

4. 34 × 93 =

✖		

=

5. 44 x 23 =
6. 36 x 25 =
7. 43 x 43 =
8. 33 x 54 =

Use it

What are the missing digits in these grid calculations?
Write the calculation and the answer.

1.

X		2
70	2800	
5		10

___ x ___ = ____

2.

X	30	
	2700	90
9	270	9

___ x ___ = ____

3.

X		8
60		480
	240	64

___ x ___ = ____

Prove it

Eva says,

To multiply 23 by 57 I just need to calculate 20 × 50 and 3 × 7 and then add the totals.

What mistake has Eva made?
Explain your answer.