15.01.21

I can solve multiplication problems - mastery

Lets look at this one together...

Dexter says,

$$4 \times 21 = 2 \times 42$$

Is Dexter correct?

Lets look at this one together…

Dexter says,

$4 \times 21 = 2 \times 42$

Is Dexter correct?

___4___ × ___21___ = _____

___2___ × ___42___ = _____

Dexter says,

4 × 21 = 2 × 42

Is Dexter correct?

___4___ × ___21___ = _____

X	20	1
4		

___2___ × ___42___ = _____

X	40	2
2		

Dexter says,

4 × 21 = 2 × 42

Is Dexter correct?

___4___ × ___21___ = _____

X	20	1
4	80	4

=84

___2___ × ___42___ = _____

X	40	2
2	80	4

=84

Dexter says,

4 × 21 = 2 × 42

Is Dexter correct?

4 × 21 = _____

X	20	1
4	80	4

=84

2 × 42 = _____

X	40	2
2	80	4

=84

Yes. Dexter is correct. 4 x 21 = 2 x 42

Can we make our answer even better?

Dexter says,

4 × 21 = 2 × 42

Is Dexter correct?

4 × 21 =

X	20	1
4	80	4

=84

2 × 42 =

X	40	2
2	80	4

=84

Yes. Dexter is correct. 4 x 21 = 2 x 42 because one number has been halved and one number has been doubled.

Half of 4 is 2.   Double 21 is 42.

Your turn...

True or false?

$$5 \times 30 = 3 \times 50$$

Prove it.

_____ ✗ _____ = _____

X		

_____ ✗ _____ = _____
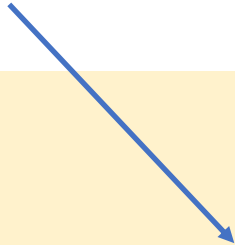
X		

Your turn...

True or false?

$$5 \times 30 = 3 \times 50$$

Prove it.

You will need to show your working out to prove if the answer is true or false.

_____5_____ x _____30_____ = _____

X	30	0
5		

_____3_____ x _____50_____ = _____

X	50	0
3		

Your turn...

True or false?

$$5 \times 30 = 3 \times 50$$

Prove it.

	5	x		30		=		

X	30	0
5	150	0

=150

	3	x		50		=		

X	50	0
3	150	0

=150

True!

Please complete as many activities as you can from the next slides. I look forward to seeing your responses on Seesaw.

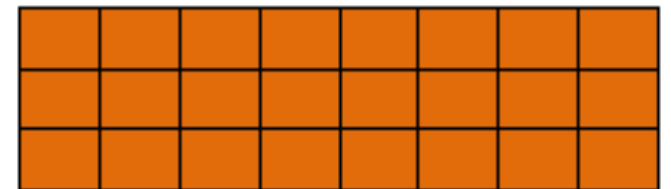Write the multiplication calculations shown by this rectangle.

Complete the following:

$3 \times \square = 12$ $4 \times \square = 20$

$\square \times 3 = 15$ $8 \times \square = 24$

Rosie has 240 cakes to sell.
She puts the same number of cakes in
each box and has no cakes left over.
Which of these boxes could she use?

10 20 30 40

50 60 80 100

What pair of numbers could be
written in the boxes?

☐ x ☐ = 24

You are asked to work out 54 x 3.
Would you need to know 3 x 5 to
solve it? Convince me.

How close can you get to 100?
Use each digit card once in the multiplication.

$$\boxed{2}\ \boxed{3}\ \boxed{4}$$

$$\boxed{}\ \boxed{} \times \boxed{} =$$

I know that when multiplying 3 by 40, 40 is ten times bigger than 4, so my answer will be ten times bigger than 3×4

Is Mo correct?
Explain your answer.

Always, Sometimes, Never?

A two-digit number multiplied by a one-digit number has a two-digit product.

True or False?
$3 \times 4 = 6 \times 2$
$2 \times 6 = 4 \times 3$
Explain your reasoning.