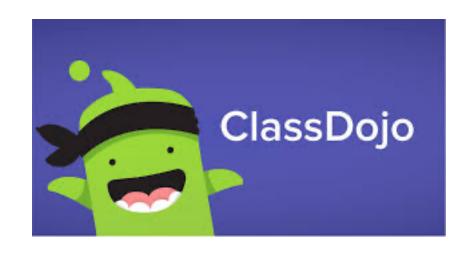
Year 3 Maths Lesson

11.1.21

On this maths powerpoint:

- 1 warm up activity
- 1 maths lesson



Remember – you can get Dojos for posting pictures of your work on Class Dojo!



Warm Up Activity



Practise doubling numbers!

Easier

- 1. Double 10 =
- 2. Double of 20 =
- 3. Double of 16 =
- 4. Double of 22 =
- 5. Double of 12 =
- 6. Double of 14 =

How do you do it?

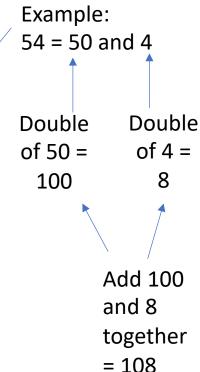
With smaller numbers, use counters. You can use anything as counters. E.g. pennies, straws, bits of cut up paper etc.

Harder

- 1. Double of 64 =
- 2. Double of 86 =
- 3. Double of 48 =
- 4. Double of 32 =
- 5. Double of 54 =
- 6. Double of 58 =

How do you do it?

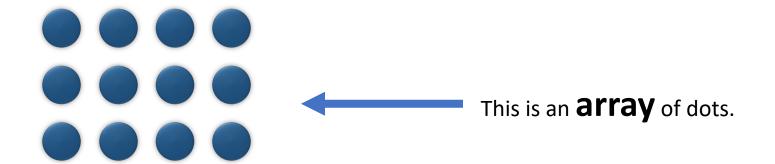
With bigger numbers, split it up into tens and units. Double the tens first, then the units. Then add your two answers together.



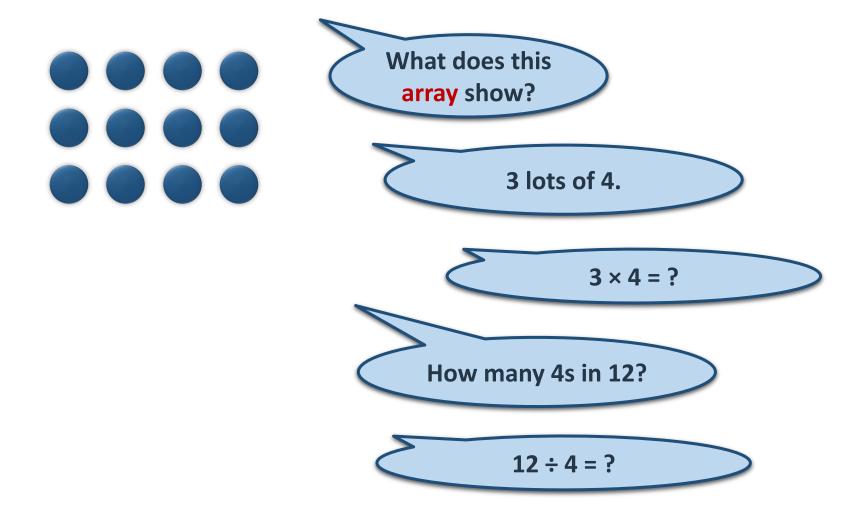
Maths Lesson 11.1.21

Write out your objective and date in your exercise book.

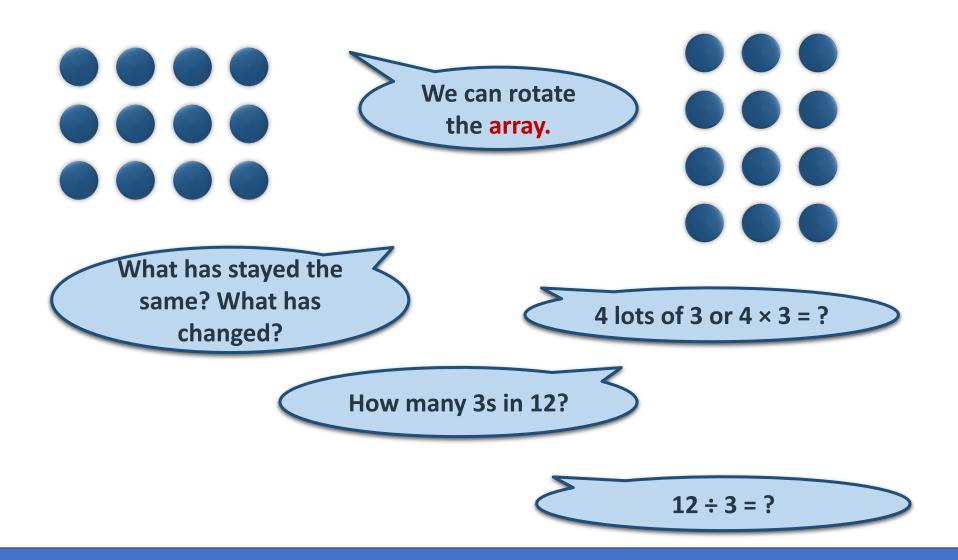
Objective: Understand multiplication and division as arrays.



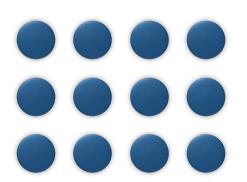
Day 1: To understand multiplication and division as arrays.



Day 1: To understand multiplication and division as arrays.



Day 1: To understand multiplication and division as arrays.



Write the four multiplication and division facts for this array.

$$3 \times 4 = 12$$

$$4 \times 3 = 12$$

$$12 \div 4 = 3$$

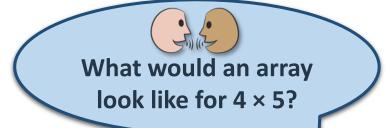
$$12 \div 3 = 4$$

Have you got all four?

What do you notice about the four number sentences?

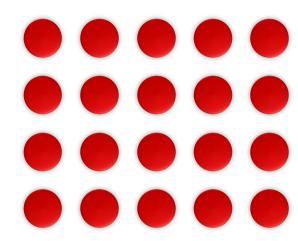
They all contain a 3, 4 and 12!

Day 1: To understand multiplication and division as arrays.



Write down the four number sentences for this array.

Remember you can turn it around!



$$4 \times 5 = 20$$

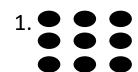
$$5 \times 4 = 20$$

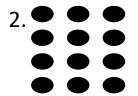
$$20 \div 5 = 4$$

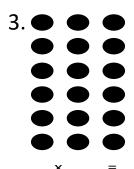
$$20 \div 4 = 5$$

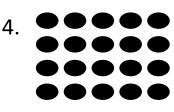
Task 1:

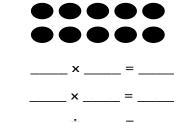
Write out the multiplication and division calculations that go with the arrays shown.











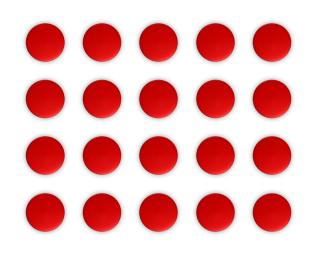
____ ÷ ____ = ____



Inverse calculations

Did you notice?

The calculations that go with this array are inverse to one another!



Inverse

 $4 \times 5 = 20$ $5 \times 4 = 20$ $20 \div 4 = 5$

 $20 \div 5 = 4$

What does inverse mean?

Something that is the opposite or reverse of something else.

Task 2: Choose a level below. Write out the calculation and it's inverse calculation.

Multiplication and division					
Bronze		Silver		Gold	
x 3 = 9	9 ÷ 3 =	x 3 = 21	21 ÷ 3 =	x 3 = 36	36 ÷ 3 =
x 10 = 20	20 ÷ 10 =	x 10 = 100	100 ÷ 10 =	x 10 = 90	90 ÷ 10 =
x 2 = 8	8 ÷ 2 =	x 2 = 16	16 ÷ 2 =	x 2 = 22	22 ÷ 2 =
x 4 = 16	16 ÷ 4 =	x 4 = 20	20 ÷ 4 =	x 4 = 36	36 ÷ 4 =
x 5 = 25	25 ÷ 5 =	x 5 = 45	45 ÷ 5 =	x 5 = 35	35 ÷ 5 =
x 3 = 18	18 ÷ 3 =	x 3 = 33	33 ÷ 3 =	x 3 = 27	27 ÷ 3 =
x 5 = 15	15 ÷ 5 =	$\int x 5 = 30$	30 ÷ 5 =	x 5 = 60	60 ÷ 5 =
x 2 = 14	14 ÷ 2 =	x = 24	24 ÷ 3 =	x 2 = 18	18 ÷ 2 =
x 10 = 40	40 ÷ 10 =	x 10 = 70	70 ÷ 10 =	x 10 = 110	110 ÷ 10 =
x 4 = 24	24 ÷ 4 =	x 4 = 36	36 ÷ 4 =	x 4 = 48	48 ÷ 4 =

