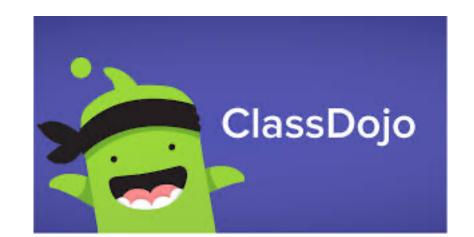
Maths Lesson Year 3

Write your date and title in your exercise book.

25.2.21

Can I divide by 4 by halving twice?

Don't forget to take a photo of your work and post it on class dojo.





Warm up



Practise dividing by 4 using your times tables

$$2.20 \div 4 =$$

$$3.8 \div 4 =$$

$$4.36 \div 4 =$$

5.
$$24 \div 4 =$$

6.
$$4 \div 4 =$$

7.
$$16 \div 4 =$$

$$8.28 \div 4 =$$

9.
$$40 \div 4 =$$

10.
$$32 \div 4 =$$

$$11.44 \div 4 =$$

12.
$$48 \div 4 =$$

Main Lesson: Today we are going to learn about using mental strategies in division.

- divide by 4 by halving twice.

How can multiply any number by 4?

We double and double again.

To find 6 × 4 we can double 6 then double 12.

That's 24.

I want to find 24 ÷ 4.

We can divide by 4 by halving and halving again!

Half of 24 is 12.

... and half of 12 is 6.

Mental strategies in division: divide by 4 by halving twice.

Try these:

$$28 \div 4$$
,

$$36 \div 4$$

Strategy: halving and halving again.

Answers on the next slide.

No peeking!

Half of 28 is ____

Half of 14 is ____

Half of 44 is ___

Half of 22 is ____

Half of 36 is ____

Half of 18 is ____

Mental strategies in division: divide by 4 by halving twice.

Try these:

$$28 \div 4$$
,

$$36 \div 4$$

Strategy: halving and halving again.

Answers below!

Half of 28 is 14

Half of 14 is 7

 $28 \div 4 = 7$

Half of 44 is 22

Half of 22 is 11

 $44 \div 4 = 11$

Half of 36 is 18

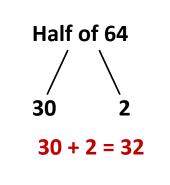
Half of 18 is 9

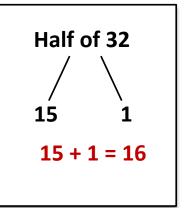
 $36 \div 4 = 9$

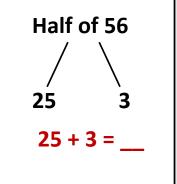
With larger numbers we can partition to help find half.

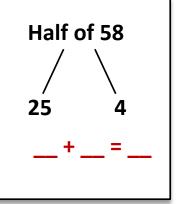
Set your work out as shown on the right.

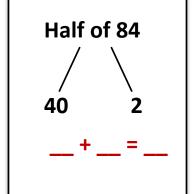
Short Task: Fill in the gaps to finish off these questions.

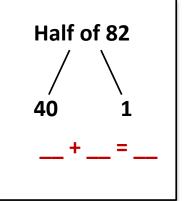












Main Task:

Print/Draw these tables in your exercise book. Fill in the tables by halving, then halving again.

Easier

243101				
Number	÷2	÷2	Number sentence	
28	14	7	28 ÷ 4 =	
24			24 ÷ 4 =	
40			40 ÷ 4 =	
16			16 ÷ 4 =	
48			48 ÷ 4 =	
20			20 ÷ 4 =	

Harder

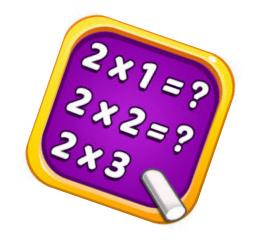
Number	÷2	÷2	Number sentence
64	32	16	64 ÷ 4 =
68			68 ÷ 4 =
52			52 ÷ 4 =
76			76 ÷ 4 =
84			84 ÷ 4 =
92			92 ÷ 4 =

Challenge



Can you think how you might use a similar mental strategy to divide 128 by 8?





If you have time...

Try a times tables game on this website.

https://www.topmarks.co.uk/maths-games/7-11-years/times-tables

Don't forget to take a photo of your work and post it on class dojo.

