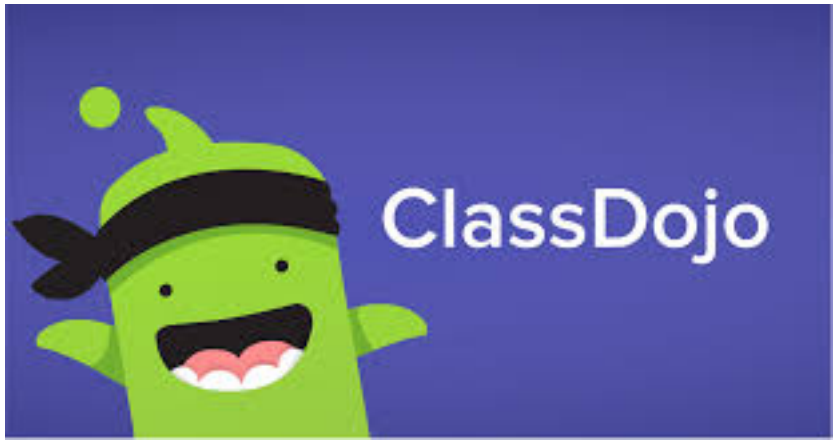
Year 3
Maths Lesson

28.1.21

Home Learning Powerpoint – If you have any problems, just send us a Dojo message.

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 dividing by 2 and 6.

Easier

1. 4 ÷ 2 =
2. 12 ÷ 2 =
3. 22 ÷ 2 =
4. 14 ÷ 2 =
5. 6 ÷ 2 =
6. 16 ÷ 2 =
7. 10 ÷ 2 =
8. 20 ÷ 2 =
9. 8 ÷ 2 =
10. 24 ÷ 2 =

Harder

1. 12÷ 6 =
2. 24 ÷ 6 =
3. 30 ÷ 6 =
4. 18 ÷ 6 =
5. 36 ÷ 6 =
6. 54 ÷ 6 =
7. 42 ÷ 6 =
8. 60 ÷ 6 =
9. 48 ÷ 6 =
10. 66 ÷ 6 =

Answers on the next page – no peeking!

Warm Up Activity

Answers!

Easier

1. $4 \div 2 = 2$
2. $12 \div 2 = 6$
3. $22 \div 2 = 11$
4. $14 \div 2 = 7$
5. $6 \div 2 = 3$
6. $16 \div 2 = 8$
7. $10 \div 2 = 5$
8. $20 \div 2 = 10$
9. $8 \div 2 = 4$
10. $24 \div 2 = 12$

Harder

1. $12 \div 6 = 2$
2. $24 \div 6 = 4$
3. $30 \div 6 = 5$
4. $18 \div 6 = 3$
5. $36 \div 6 = 6$
6. $54 \div 6 = 9$
7. $42 \div 6 = 7$
8. $60 \div 6 = 10$
9. $48 \div 6 = 8$
10. $66 \div 6 = 11$

Now mark your work.

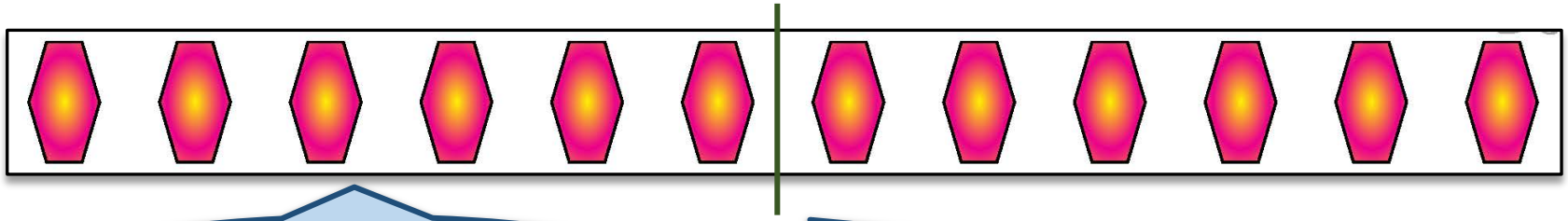
How did you do?

Maths Lesson

Write out your objective and date in your exercise book.

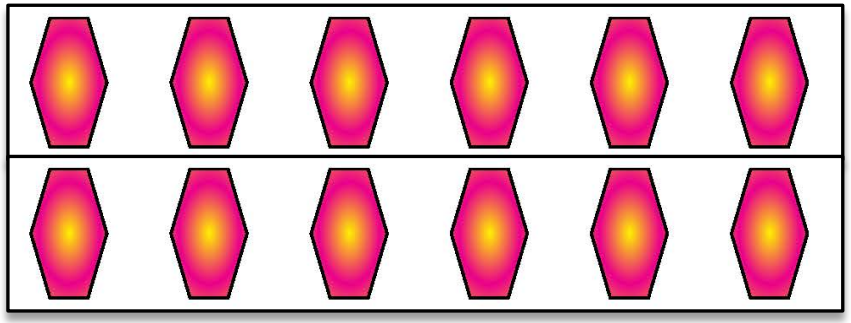
28.1.21

Objective: Can I find a fraction of an amount using division?



Imagine folding this strip of 12 shapes in **half…**

What is $^1/_2$ of 12?

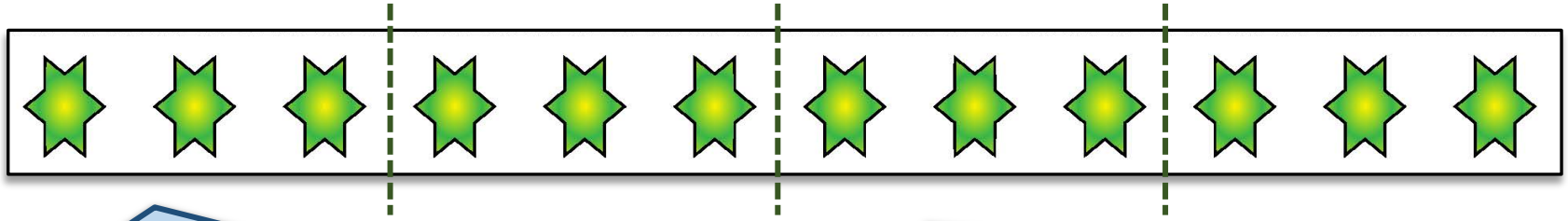


I we cut the strip in half we can arrange it to show **12 ÷ 2 = 6.**

We can also use a **bar model** to show half of 12.

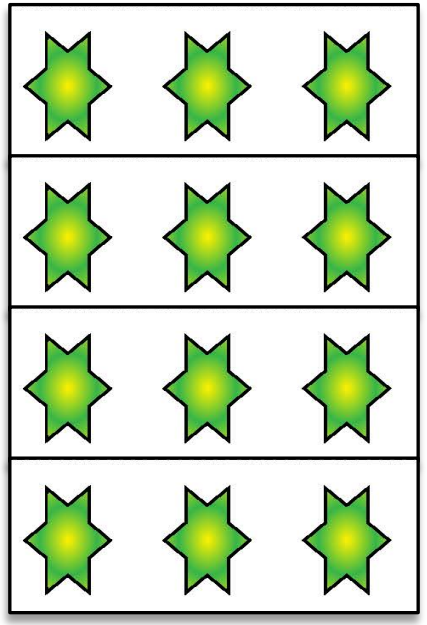
12	
6	6

To find $^1/_2$, **divide by 2.**



Imagine folding this strip in half and half again so that you have **4 equal parts.** What do we call each part?

What is $\frac{1}{4}$ of 12?

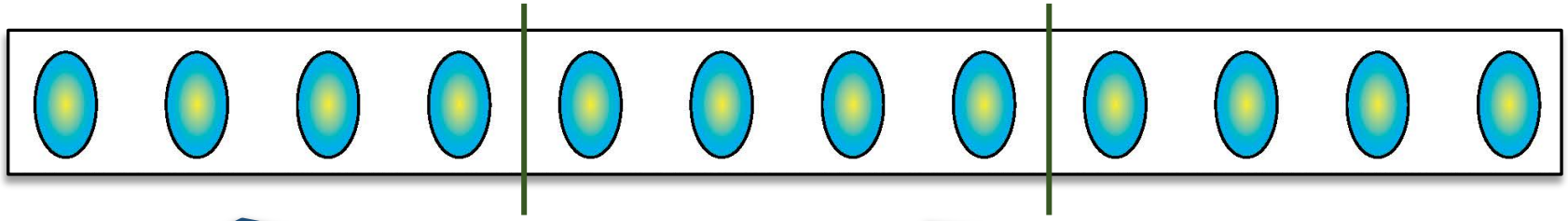


If we cut the strip into quarters we can arrange it to show **12 ÷ 4 = 3.**

To find $\frac{1}{4}$, **divide by 4.**

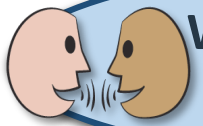
12			
3	3	3	3

We can also use a **bar model** to show $\frac{1}{4}$ of 12.



Imagine folding this strip into 3 equal parts. What do we call each part?

What is $\frac{1}{3}$ of 12?



What division fact is linked to $\frac{1}{3}$ of 12 = 4?

12 ÷ 3 = 4

We can also use a bar model to show $\frac{1}{3}$ of 12.

12		
4	4	4

To find $\frac{1}{3}$, divide by 3.

So, we have learnt that:

$\frac{1}{3}$ of 12 = 4 Means the same as… **12 ÷ 3 = 4**

$\frac{1}{4}$ of 12 = 3 Means the same as… **12 ÷ 4 = 3**

$\frac{1}{2}$ of 12 = 6 Means the same as… **12 ÷ 2 = 6**

$\frac{1}{5}$ of 35 = ? ← How can you work this out?
What division calculation is needed?

Yes, that's right! You need to do **35 ÷ 5 = ?**

Now try these. Remember to do them as division calculations.

$\frac{1}{2}$ of 8 =	$\frac{1}{2}$ of 12 =	$\frac{1}{2}$ of 10 =	$\frac{1}{5}$ of 60 =
$\frac{1}{3}$ of 21 =	$\frac{1}{5}$ of 15 =	$\frac{1}{3}$ of 15 =	$\frac{1}{4}$ of 44 =
$\frac{1}{4}$ of 36 =	$\frac{1}{4}$ of 16 =	$\frac{1}{2}$ of 6 =	$\frac{1}{4}$ of 24 =
$\frac{1}{5}$ of 10 =	$\frac{1}{3}$ of 18 =	$\frac{1}{5}$ of 35 =	$\frac{1}{2}$ of 20 =
$\frac{1}{2}$ of 14 =	$\frac{1}{4}$ of 40 =	$\frac{1}{5}$ of 5 =	$\frac{1}{3}$ of 33 =
$\frac{1}{5}$ of 50 =	$\frac{1}{3}$ of 24 =	$\frac{1}{5}$ of 25 =	$\frac{1}{3}$ of 12 =
$\frac{1}{3}$ of 9 =	$\frac{1}{2}$ of 4 =	$\frac{1}{2}$ of 16 =	$\frac{1}{4}$ of 48 =
$\frac{1}{4}$ of 4 =	$\frac{1}{5}$ of 20 =	$\frac{1}{3}$ of 3 =	$\frac{1}{5}$ of 45 =
$\frac{1}{5}$ of 30 =	$\frac{1}{4}$ of 20 =	$\frac{1}{4}$ of 32 =	$\frac{1}{4}$ of 12 =

Now do these. Remember to do them as division calculations.

Find unit fractions of numbers

Sheet 2

$\frac{1}{2}$ of 16 =	$\frac{1}{2}$ of 20 =	$\frac{1}{2}$ of 30 =	$\frac{1}{2}$ of 40 =
$\frac{1}{4}$ of 16 =	$\frac{1}{4}$ of 20 =	$\frac{1}{3}$ of 30 =	$\frac{1}{4}$ of 40 =
$\frac{1}{8}$ of 16 =	$\frac{1}{5}$ of 20 =	$\frac{1}{5}$ of 30 =	$\frac{1}{5}$ of 40 =
	$\frac{1}{10}$ of 20 =	$\frac{1}{10}$ of 30 =	$\frac{1}{8}$ of 40 =
			$\frac{1}{10}$ of 40 =

Challenge

Challenge

What different fractions can you find of 36?

Fun Activity – Play this online maths game.

https://www.bbc.co.uk/games/embed/karate-cats-2?exitGameUrl=https%3A%2F%2Fbbc.co.uk%2Fbitesize%2Farticles%2Fzf4sscw

How did you do?

Don’t forget to post your work on Class Dojo!