

ws where our GD

start.



Lesson I

Today, we are going to assess our knowledge of place value.

15 ipads are needed per class.

15 do the assessment while the others complete the reasoning.
Then switch

Lesson I

WALT: assess our knowledge of place value

Go to the Chesswood website then go to learning, curriculum, maths, in school maths assessments

Go to year 4 and click on the link above 4NPV3 then wait for your teacher.

We are going to stop after 10 minutes no matter where you are! Just try your best

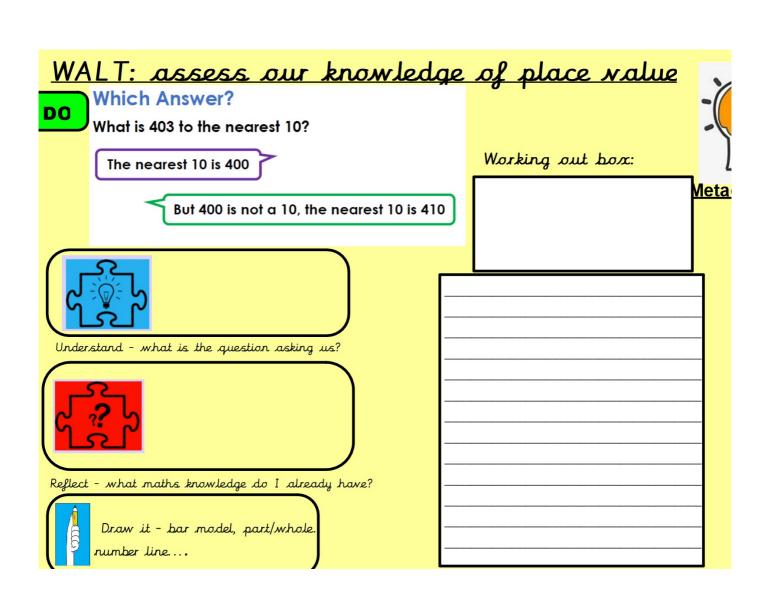
Then go to year 5 and click on the link above 5NPV3 then wait for your teacher.

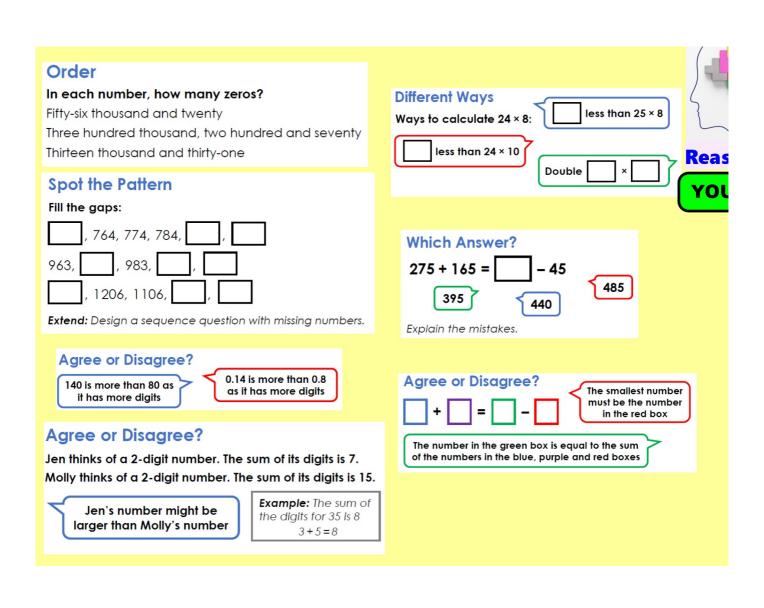
We are going to stop after 10 minutes no matter where you are! Just try your best

WALT: assess our knowledge of place value

Now we are going to practice our reasoning

WALT: assess our knowledge	of place value
Agree or Disagree?	-
569 always rounds to a bigger number because	
each digit is 5 or more	Vorking out box:
	Metacognition
Understand - what is the question asking us?	
Reflect - what maths knowledge do I already have?	
Draw it - bar model, part/whole. number line	





Lesson 2

WALT: find multiples and factors of whole numbers

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WALT: find multiples and factors of whole numbers

Today we are focusing on multiples and factos.

Can you tell me what our key vocabulary means!? Vocabulary

factors
multiples
commutative
whole numbers
product

Lets start with understanding what commutative means

Commutative is the rule that we have in multiplication that shows us that you can have your factors in any order and it won't change the product.

For example:

$$2 \times 3 = 6$$
 $3 \times 2 = 6$

"2 groups of 3 is equal to 6."

"3, two times is equal to 6."

"2 groups of 3 is equal to 3, two times."

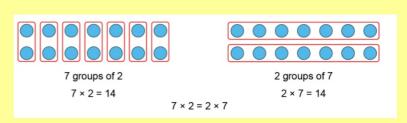
Another example:

 $7 \ X \ 2 = 14$

"2 groups of 7 is equal to 14."

"7 groups of 2 is equal to 14."

"2 groups of 7 is equal to 7 groups of 2."





"factor times factor is equal to product"

"The order of the factors does not alter the product."



A <u>multiple</u> of a given number is the product of the given number and any whole number.

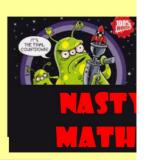
💥 your multiplicator tables

21 is a multiple of 3

A factor of given number is a whole number that the given number can be divided by without giving a remainder.

factor X factor = product

3 is a factor of 21



Challenge:

Write down all of the factors of 24 and 30

Mega challenge:

Write all of the numbers from 1 to 30 in the correct places on this Venn diagram.

Multiples of 3 Multiples of 4

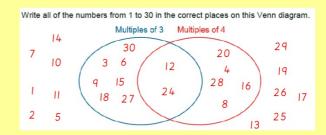
Challenge:

Write down all of the factors of 24 and 30

$$24 = 1,2,3,4,6,8,12,24$$

30 = 1,2,3,5,6,10,15,30

Mega challenge:

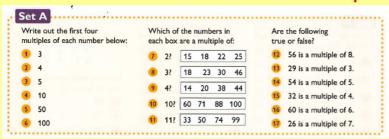


If you correctly answered <u>all</u> of the mega challenge question, move on to the class questions.

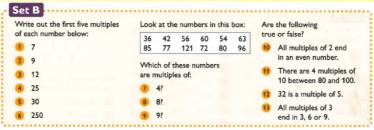
If you did not answer <u>all</u> the mega challenge correctly. stay with me to learn more.

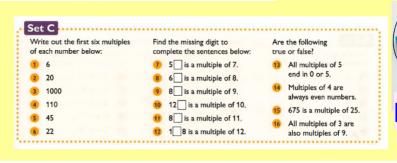
Class questions - see next slide!

REASON AND PEER MARK FOR EVERY QUESTION!



15 minutes





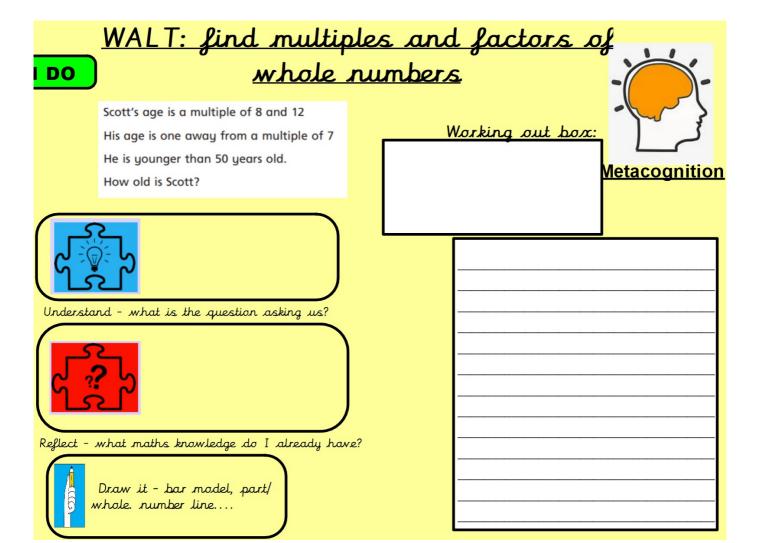
Page 43: Multiples Set A 10. 60, 100 1. 3, 6, 9, 12 11. 33, 99 2. 4, 8, 12, 16 12. True 3. 5, 10, 15, 20 13. False 4. 10, 20, 30, 40 14. False 5. 50, 100, 150, 200 6. 100, 200, 300, 400 15. True 16. True 17. False 7. 18, 22 8. 18, 30 9. 20, 44 Set B 1. 7, 14, 21, 28, 35 8. 56, 72, 80, 96 9. 36, 54, 63, 72 10. True 2. 9, 18, 27, 36, 45 3. 12, 24, 36, 48, 60 4. 25, 50, 75, 100, 125 11. False 5. 30, 60, 90, 120, 150 6. 250, 500, 750, 1000, 1250 12. False 13. False 7. 36, 56, 60, 72, 80, 96 Set C 1. 6, 12, 18, 24, 30, 36 9. 1 2. 20, 40, 60, 80, 100, 120 3. 1000, 2000, 3000, 4000, 5000, 6000 **10.** 0 11. 8 12. 0 4. 110, 220, 330, 440, 550, 660 **5.** 45, 90, 135, 180, 225, 270 13. True 14. True 6. 22, 44, 66, 88, 110, 132 7. 6 15. True 16. False



WALT: find multiples and factors of whole numbers Factors Set A The box shows the factors of 30. The boxes show the factors of each Find the missing values to give all the factor pairs of 28: number. Find the missing factors. 1 2 3 5 6 10 15 30 6 1 × = 28 15 minutes 1 6 1 2 ? 6 7 2 × = 28 Which of these numbers 2 8 1 ? 4 8 8 4 × = 28 are also factors of: 3 10 1 2 ? 10 11 33? Find the missing factors: 12 50? 9 × = 13 4 14 1 2 7 ? Set B 5 15 1 3 ? 15 Look at the numbers in the box. Find the missing values to give The boxes show the factors of each number. Find the missing factors. all the factor pairs of 48: 2 4 5 7 6 1 × = 48 8 9 10 1 12 1 2 3 4 ? 12 7 2 × = 48 Find two numbers that 2 16 1 2 ? 8 16 8 3 × = 48 are common factors of: 3 18 1 2 ? 6 9 18 9 4 × = 48 12 35 and 70 10 6 × = 48 4 20 1 2 ? ? 10 20 13 54 and 18 find the common factors 14 42 and 56 5 81 1 3 ? 27 81 Set C Find all the common factors of Which has more factors: Find the factors of each pair of numbers below: these numbers: 6 42 or 28? 9 18 and 12 1 36 7 18 or 21? 10 48 and 36 What are their common factors? 11 28 and 24 3 40 8) 30 or 45? 12 35 and 70 4 24 What are their 5 27

Page 4	44: Factors	3			
Set A					
1. 3 2. 2 3. 5 4. 1 5. 5	2 5 14	7. 8.	28 14 7 1 × 13		10. 1 × 11 11. 1, 3 12. 1, 2, 5, 10 13. 1, 2, 3, 6
Set B					
1. 6 2. 4 3. 3 4. 4 5. 9	4 3 4, 5	7. 8.	48 24 16 12 8		11. 1, 2, 3, 4, 6, 12 12. 5, 7 13. 2, 9 14. 2, 7
 1, 2, 3, 4, 6, 9, 12, 18, 36 1, 3, 11, 33 1, 2, 4, 5, 8, 10, 20, 40 1, 2, 3, 4, 6, 8, 12, 24 1, 3, 9, 27 42 has more factors than 28. 18 has more factors of 18 and 21 are 1 and 3. 			9. 10. 11. 12.	30 has more factors than 45. The common factors of 30 and 45 are 1, 3, 5 and 15. 1, 2, 3, 6 1, 2, 3, 4, 6, 12 1, 2, 4 1, 5, 7, 35 1, 2, 4, 8, 16	





Is this statement always, sometimes or never true?

A number will always have an even number of factors because factors come in factor pairs.



Understand - what is the question asking us?



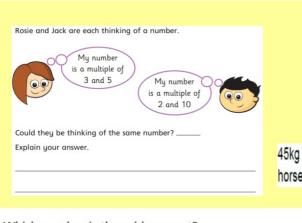
Reflect - what maths knowledge do I already have?



Draw it - bar model, part/whole.
number line...

Working out box:

<u>Meta</u>



Which number has the most factors? Tick your answer.

64

48

45kg of animal feed is shared between some horses. They each get 5kg. How many horses were there?

Which number is the odd one out?

Tick your answer.

8

56

6

16

Is this statement always, sometimes or never true?

A number will always have an even number of factors because factors come in factor pairs.

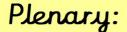
1m 40cm of ribbon was cut into equal pieces. Each piece is 14cm long. How many pieces of ribbon are there?

Fill in the missing numbers.

÷ 20 = 5

3,000 ÷ = 250

×100 = 5,400



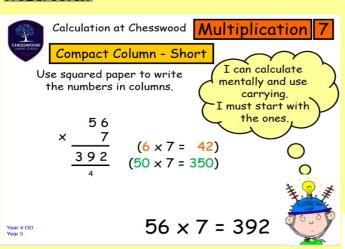


The product of two consecutive numbers is always the multiple of an odd number.

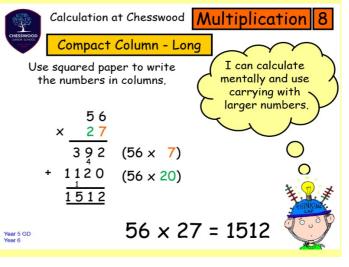


Day 3

WALT apply our multiplication knowledge to a written method.



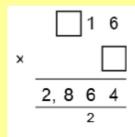
We are going to be focusing on our written methods for multiplication



Challenge:

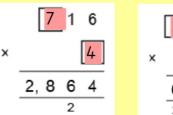


Mega challenge:



Challenge:

$$9,079 = 7 \times 1,297$$



If you correctly answered <u>all</u> of the mega challenge question, move on to the class questions.

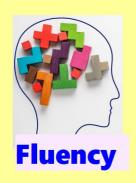
If you did not answer <u>all</u> the mega challenge correctly, stay with me to learn more.



If you get 5 correct in a row then move on.

If you feel confident, start at number 10 then move on.

Check your answers with the person next to you or with a calculator.







Reasoning

Now we've spent some time practising the skills...

...we can start to use them.

I DO WALT apply our multiplicat	tion knowledge				
to a written method.					
A factory packs biscuits into boxes of 9. The factory produces 1,350 packer biscuits in a day. How many biscuits is that?					
<u> </u>	Vorking out box:				
	Metacognition				
Understand - what is the question asking us?					
Reflect - what maths knowledge do I already have?					
Draw it - bar model, part/whole. number line					

I know... so...

 $24 \times 18 = 432$

 $30 \times 15 = 450$

 $35 \times 12 = 420$

843

× 6

4458

2 1

24 × 19 =

40 × 15 =

38 × 12 =

Different Ways

Ways to calculate 24 × 8:

less than 25 × 8

less than 24 × 10

Double ×

Explain the Mistakes

261

× 4

8244

417

× 5

2055

3

Estimation

89 × 43

The answer will be odd/even.

 $90 \times 40 = 3600$

 $90 \times 50 = 4500$

Estimation for 89 × 43 is

Estimation

584 × 9

The answer will be odd/even.

 $500 \times 9 = 4500$

600 × 9 = 5400

Estimate for **584 × 9 is**

Part-Complete Examples

6 3 × 5 3 1 8 9

2 4 × 1 6

2 4

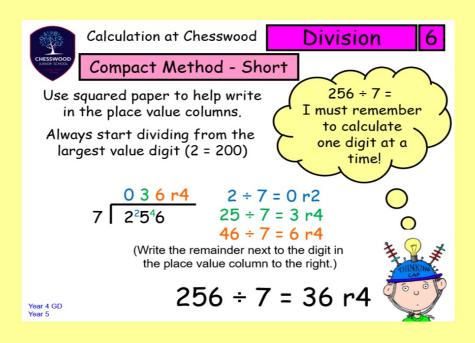
× 4 6 4 8 6

8 1

Lesson 4

WALT divide numbers within a written method.

<u>WALT divide numbers within a written</u> <u>method.</u>



WALT divide numbers within a written method.

Challenge:

Mega challenge:

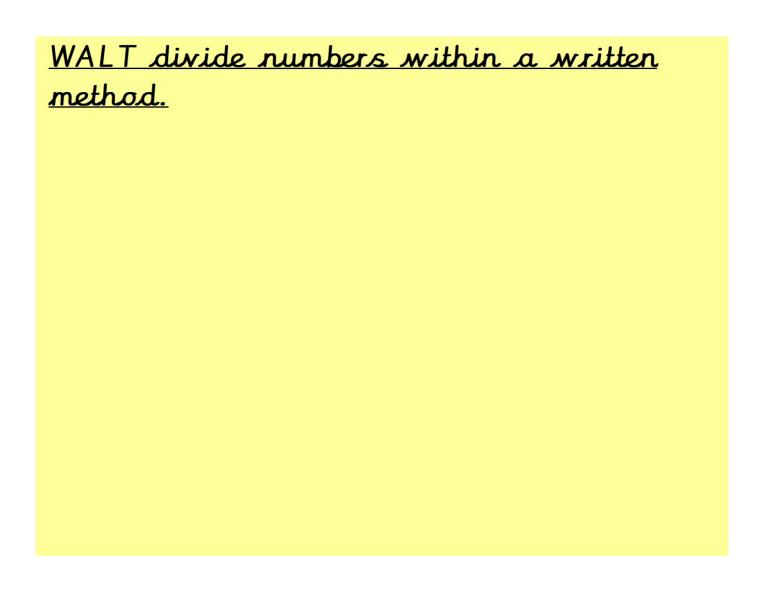


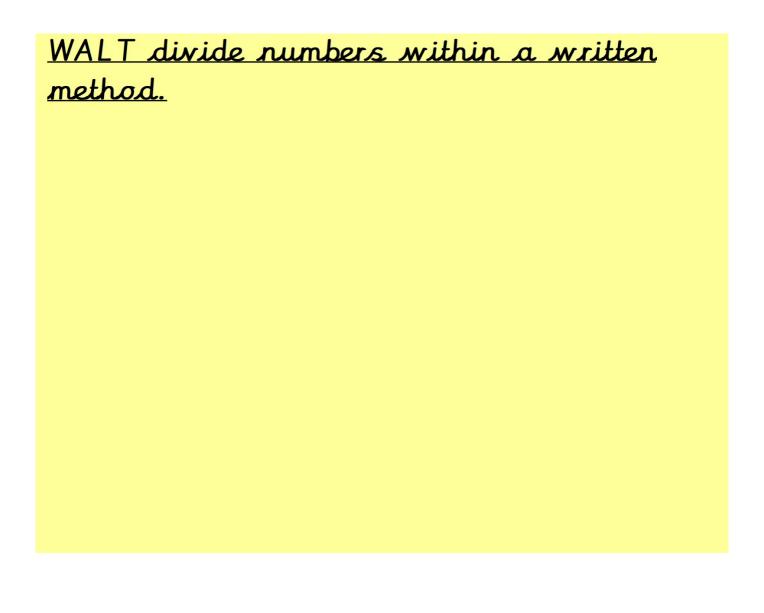
Challenge: Mega Challenge:

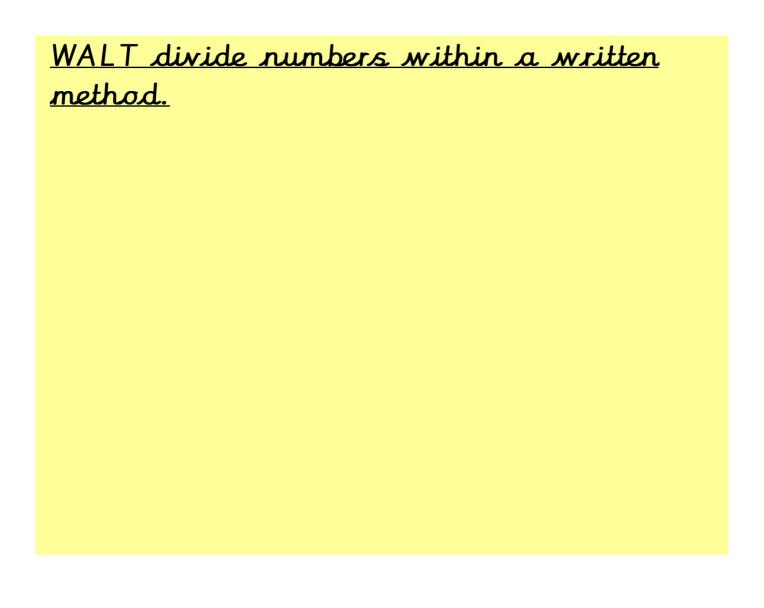
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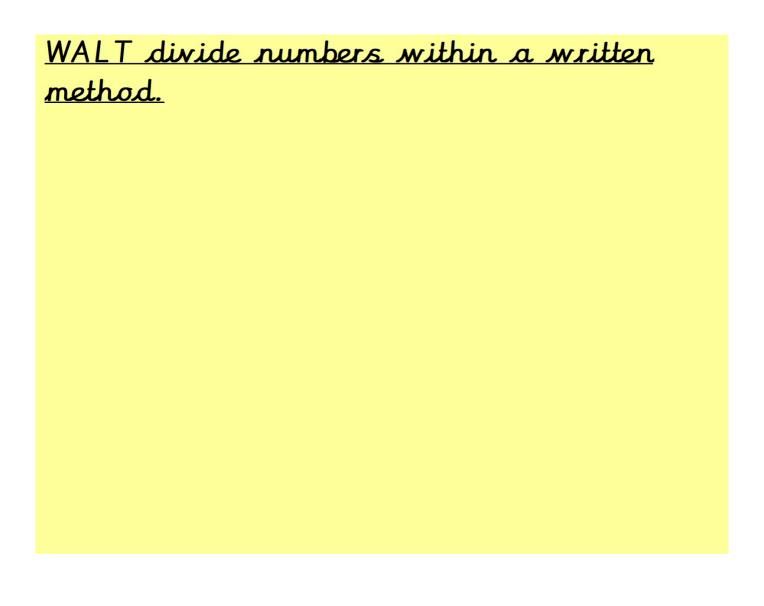
If you did not answer <u>all</u> the mega challenge correctly, stay with me to learn more.

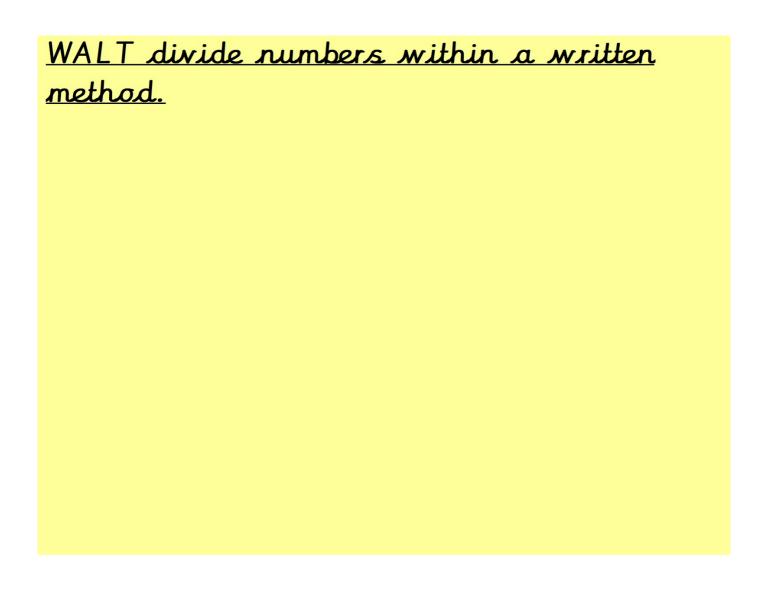
WALT divide numbers within a written method.

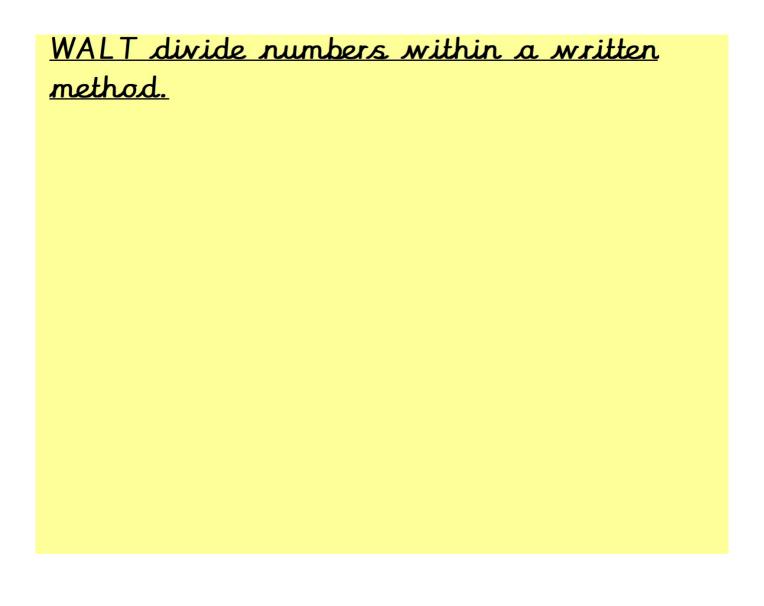


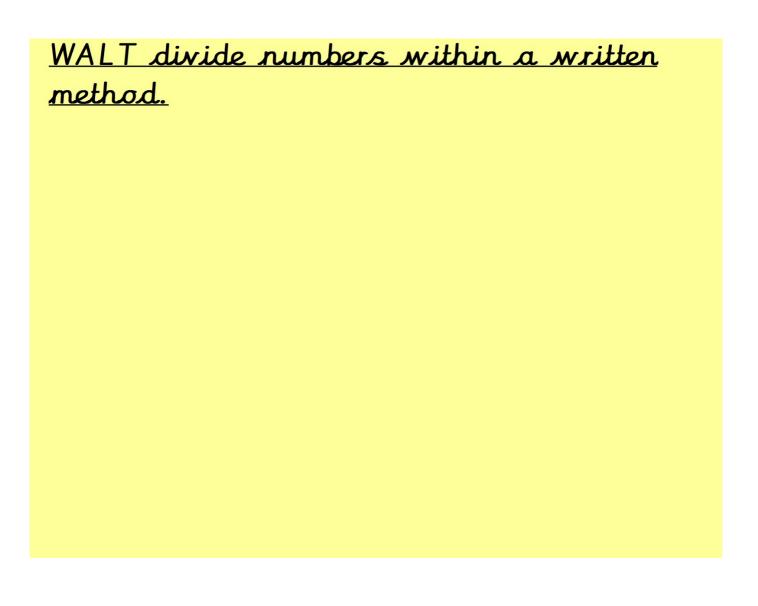












Lesson 5

WALT: evaluate our recent learning

WALT: evaluate our recent learning

Today, we are going to evaluate our learnin of the following maths topics:

- -Factors and multiples
- metric measures
- multiply and divide by 10s and 100s
- scaling number facts
- using decimals

Key information for each: Factors | Metric | x/÷ 10, | scaling | number facts | Reflect - what maths knowledge do I already | have?







Understand
Communicate
Reflect







Pick a card. Any card!



