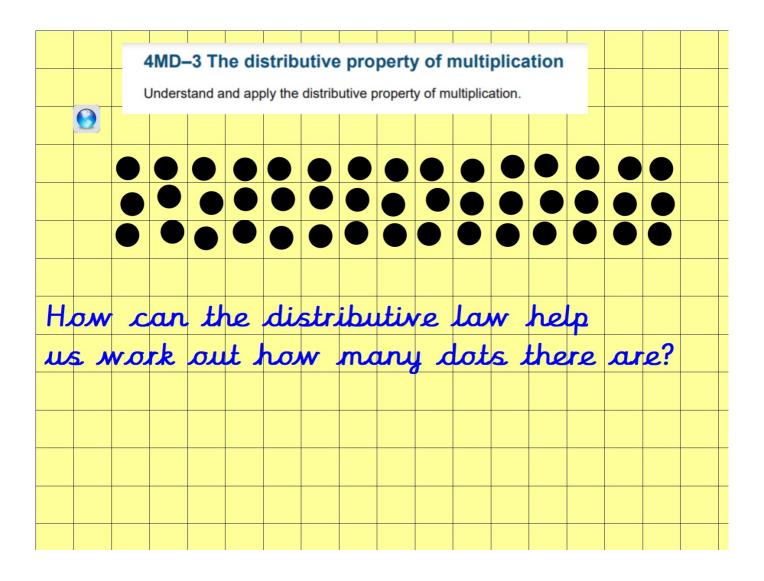


# WEEK 10 - MATHS





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## WALT use common factors

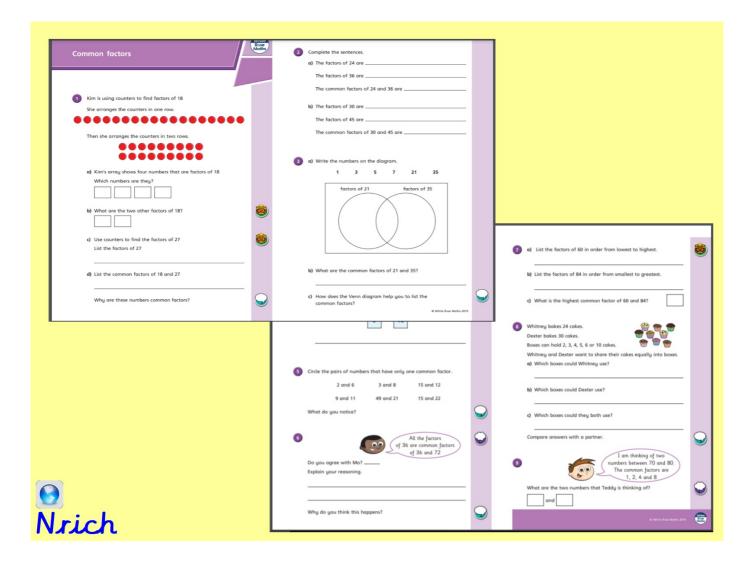
What are the factors common to both 15 and 25?

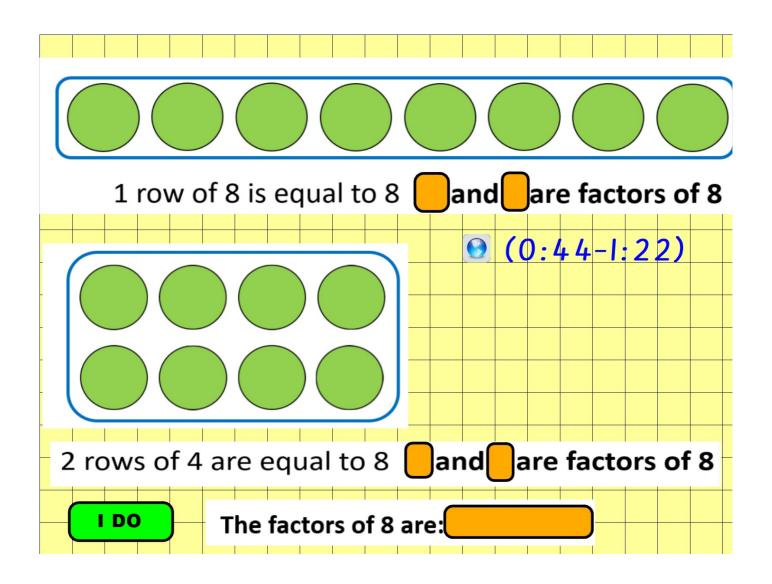
1, 5

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

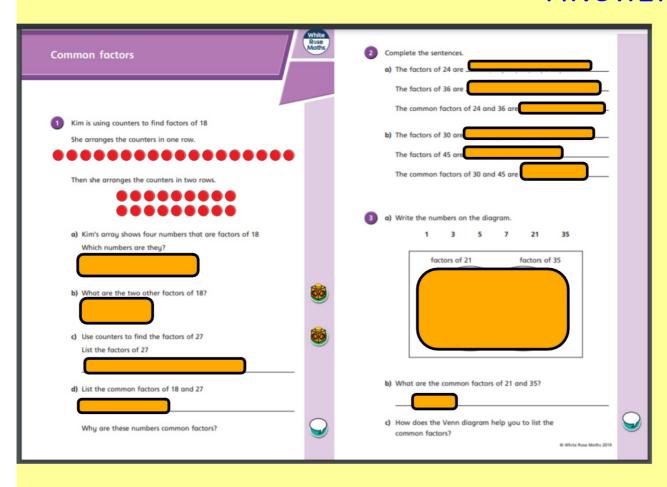
If you did not answer <u>all</u> the mega challenge correctly, stay with me to learn more.

Class questions - see next slide!
REASON AND PEER MARK FOR EVERY QUESTION!

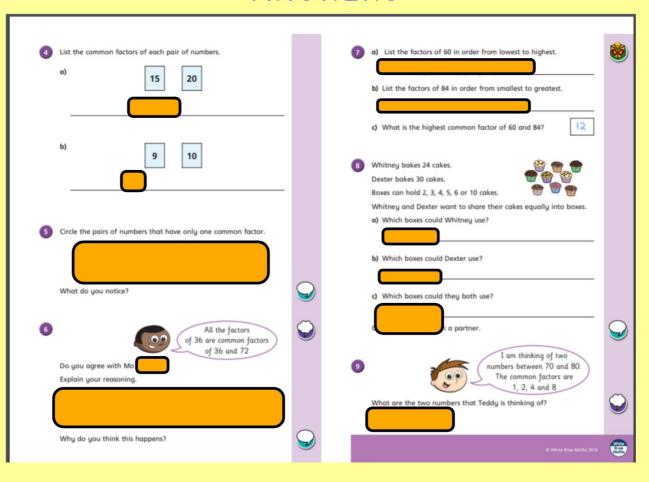


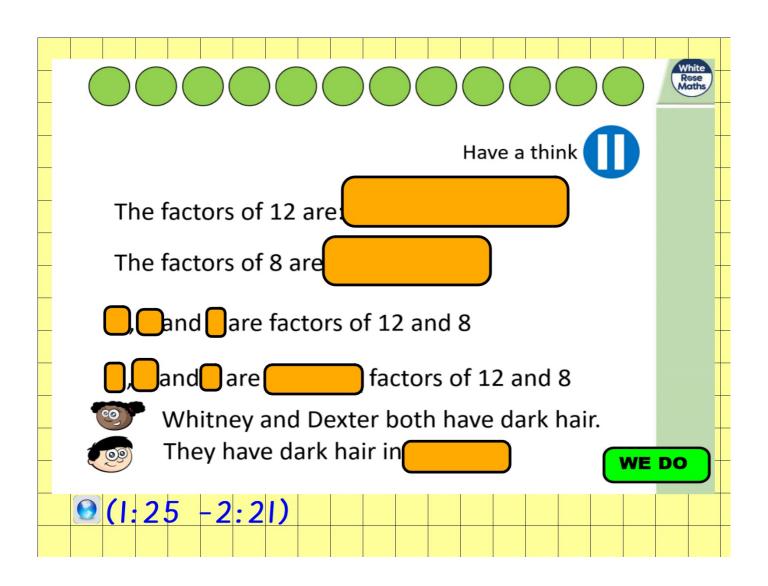


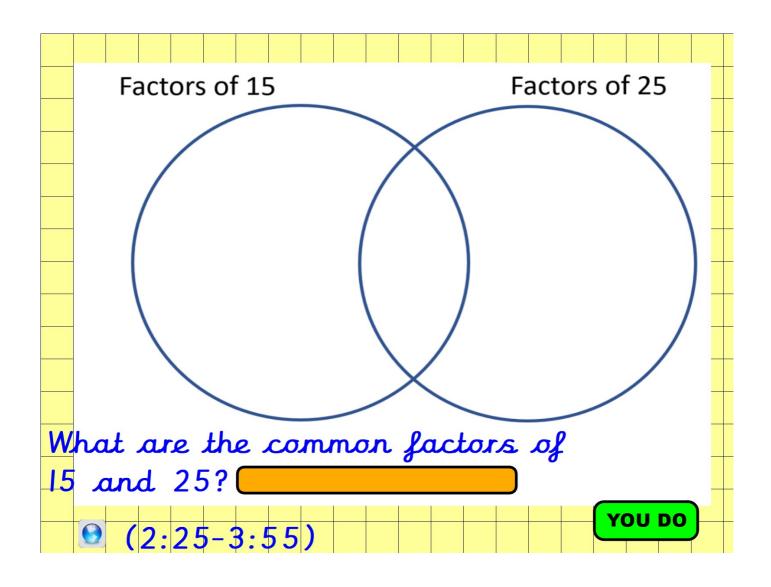
## **ANSWERS**



## **ANSWERS**







# Plenary (5:03 - 7:37)

Rosie has 14 tennis balls. Amir has 24 tennis balls.



Ball containers can hold 2, 4, 8 or 10 balls.

Each child wants to buy containers <u>all of</u> the same size and to have only full containers.

Have a think



- 1) Which container size could both Amir and Rosie use?
- 2) Which container size could neither Amir nor Rosie use?

OR Nrich could feed back!

#### 4MD-1 Multiplying and dividing by 10 and 100

Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size.

1,0	000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	
1	100	200	300	400	500	600	700	800	900	)× 10
	10	20	30	40	50	60	70	80	90	<
	1	2	3	4	5	6	7	8	9	)÷ 10
			80 × 1	0 = 80	0		80 ÷	10 =	8	

Figure 118: using the Gattegno chart to multiply and divide by 10

Explore how the chart helps us x 10,100,1000

#### Language focus

"23, made 100 times the size, is 2,300."

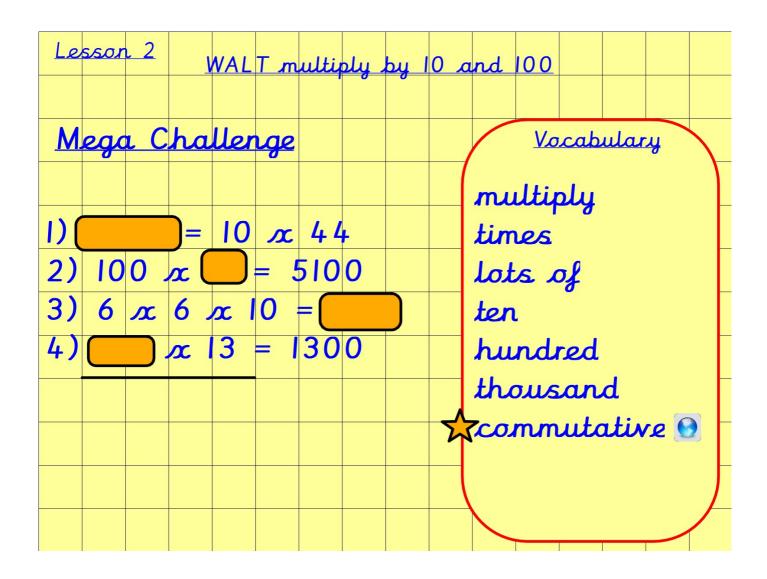
"23 multiplied by 100 is equal to 2,300."

"First we had 23 ones. Now we have 23 hundreds."

"1,450 is 10 times the size of 145."

"1,450 divided by 10 is equal to 145."

"First we had 145 tens. Now we have 145 ones."



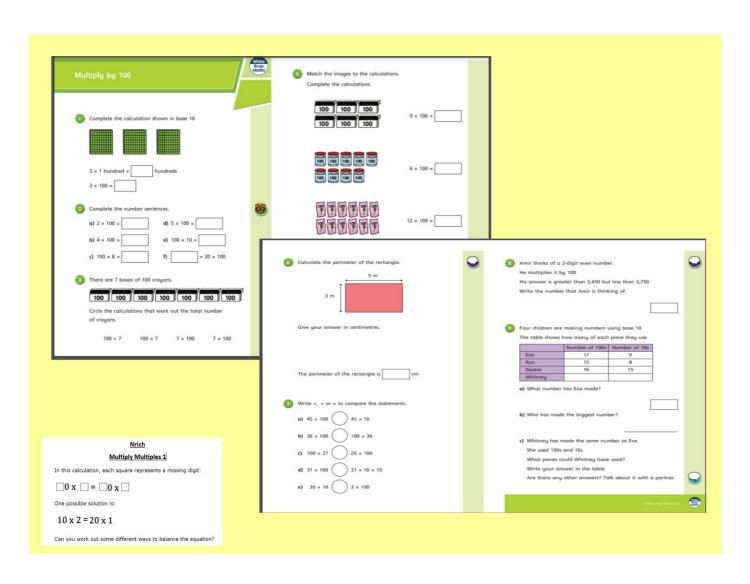
### WALT multiply by 10 and 100

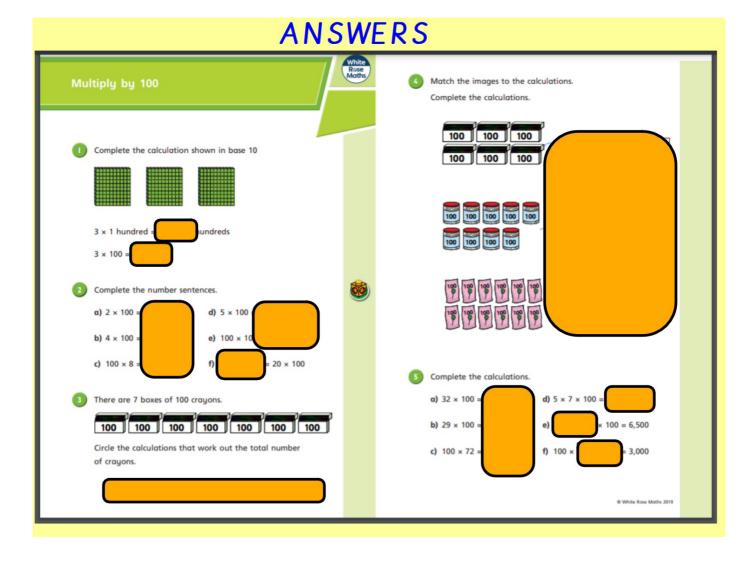
1) = 
$$10 \times 44$$
  
2)  $100 \times = 5100$   
3)  $6 \times 6 \times 10 =$   
4)  $\times 13 = 1300$ 

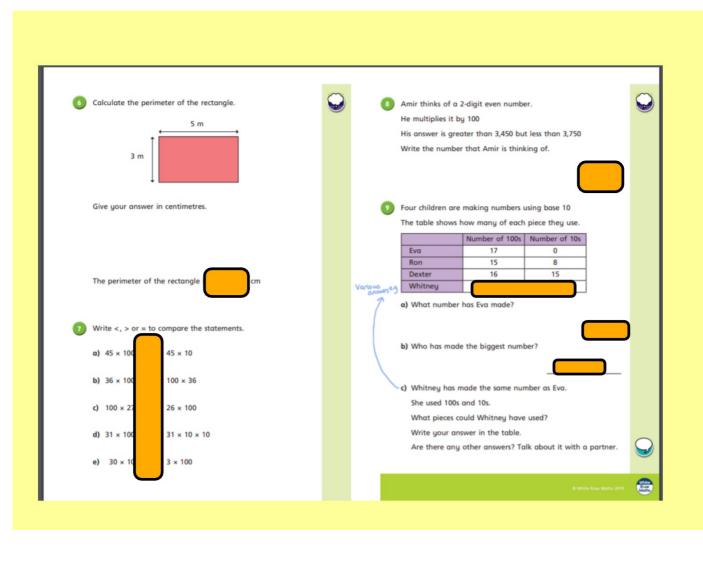
If you correctly answered <u>all</u> of the mega challenge question, move on to the class questions.

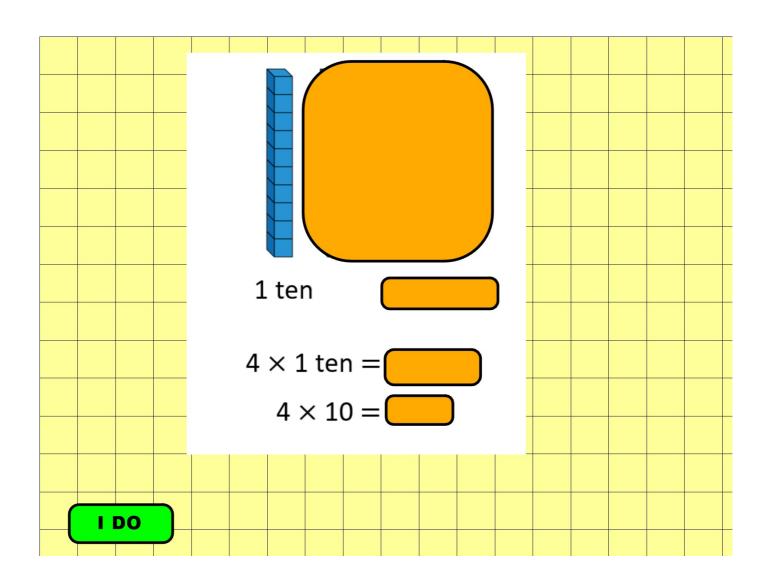
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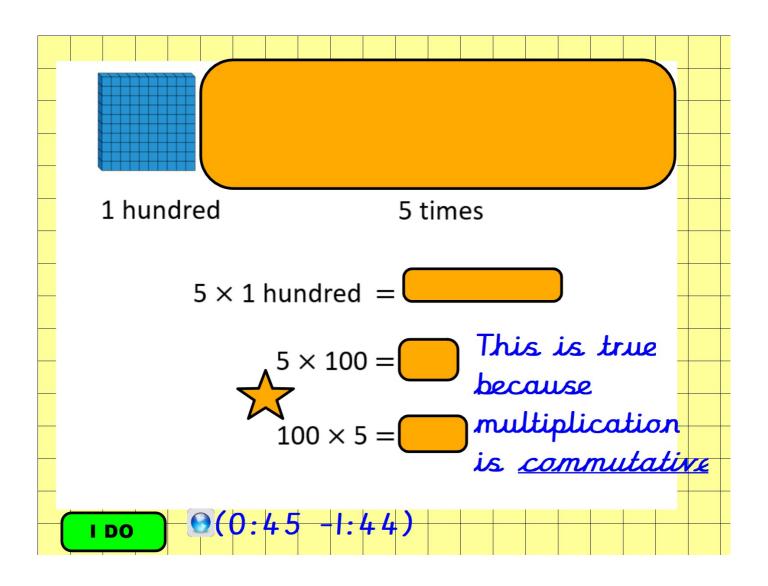
Class questions - see next slide!
REASON AND PEER MARK FOR EVERY QUESTION!

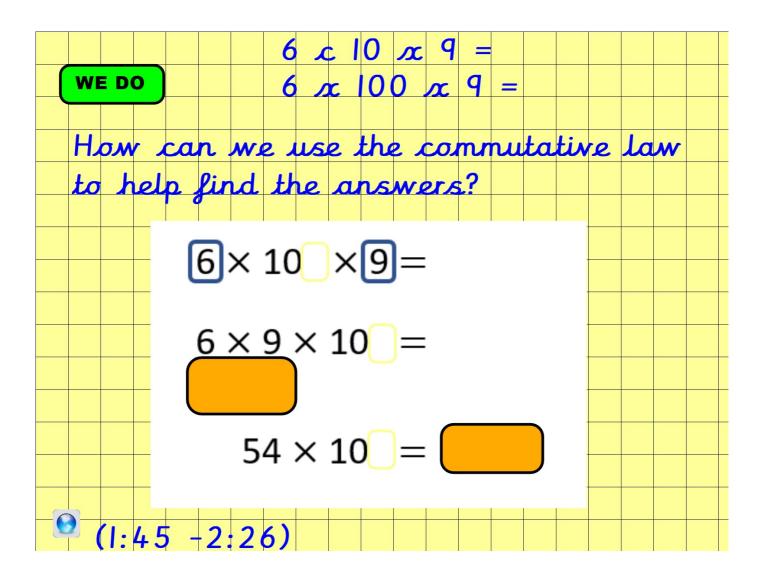




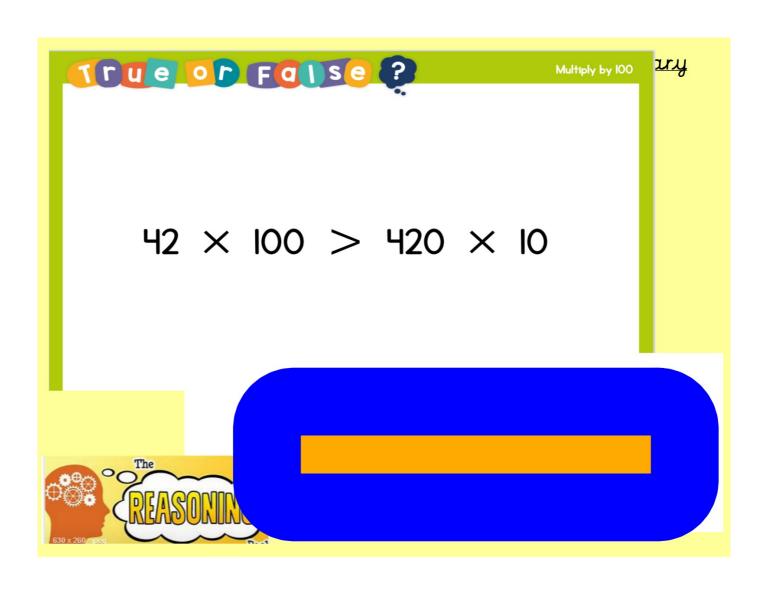








YOU	DO			
1)	5 x 10 =			
2)	45 x 10 =			
3)	5 x 100 =	=		
4)	45 × 100	=		
5)	26 x =	= 260		
6)	<u></u>	= 2600		
7)	13 x	= 1300		
8)	13 x =	130		
9)	49 × 100	=		
10)	10 100	=		



#### 4MD-1 Multiplying and dividing by 10 and 100

Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size.

1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	
100	200	300	400	500	600	700	800	900	7× 10
10	20	30	40	50	60	70	80	90	Κ
1	2	3	4	5	6	7	8	9	)÷ 10

Use the

 $13 \times 10 = 130$ 

 $130 \div 10 = 13$ 

chart to

 $130 \times 10 = 1300$ 

 $1,300 \div 10 = 130$ 

explain

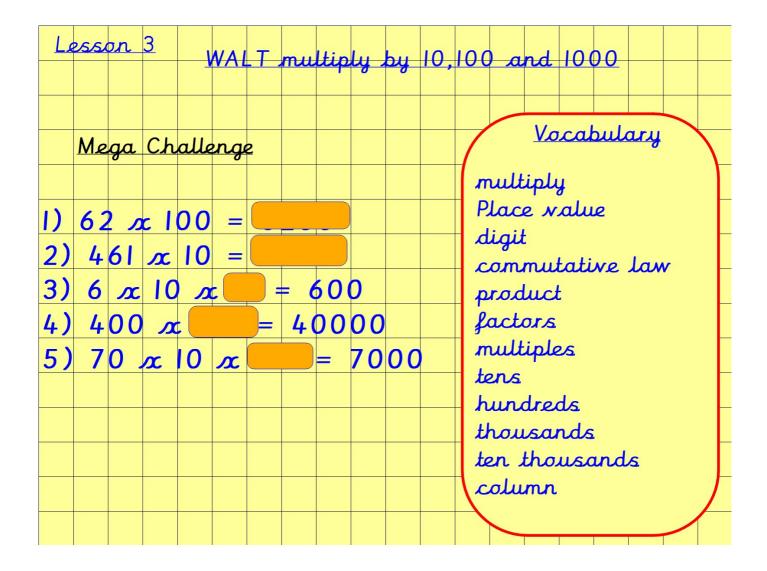
 $13 \times 100 = 1,300$ 

 $1,300 \div 100 = 13$ 

these equations.

Useful phrases: 23, made 100 times the size is 2300. 23, multiplied by 100 is equal to 2300. First we had 23 ones. Now we have 23 hundreds.

1450 is 10 times the size of 145. 1450 divided by 10 is equal to 145. First we had 145 tens. Now we have 145 ones.



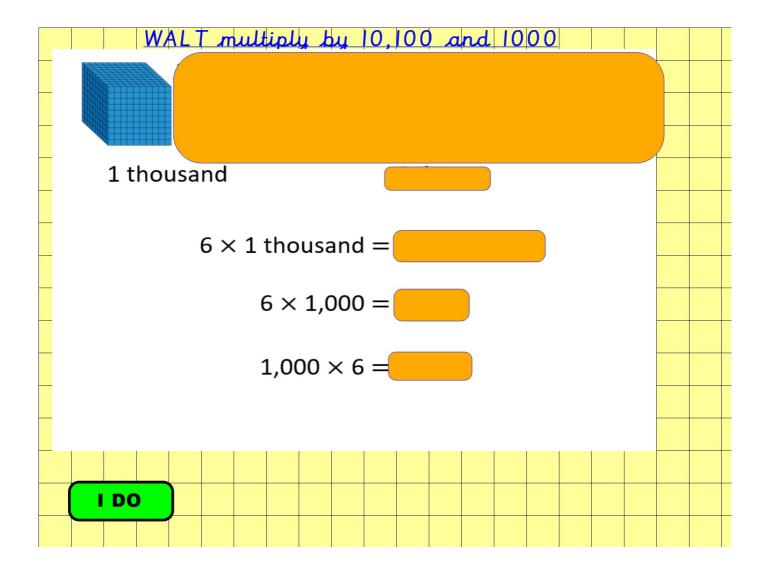
### WALT multiply by 10,100 and 1000

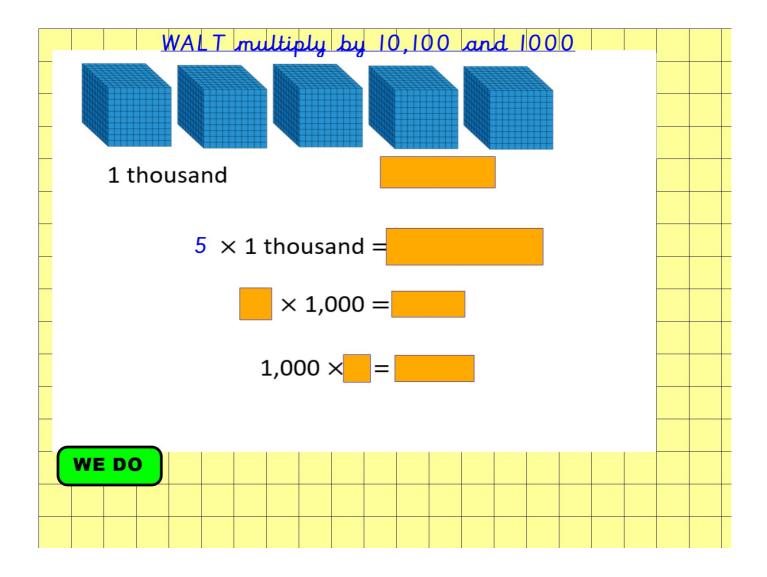
- 1)  $62 \times 100 = 6200$
- 2)  $461 \times 10 = 4610$
- 3)  $6 \times 10 \times 10 = 600$
- 4)  $400 \times 100 = 40000$
- 5)  $70 \times 10 \times 100 = 7000$

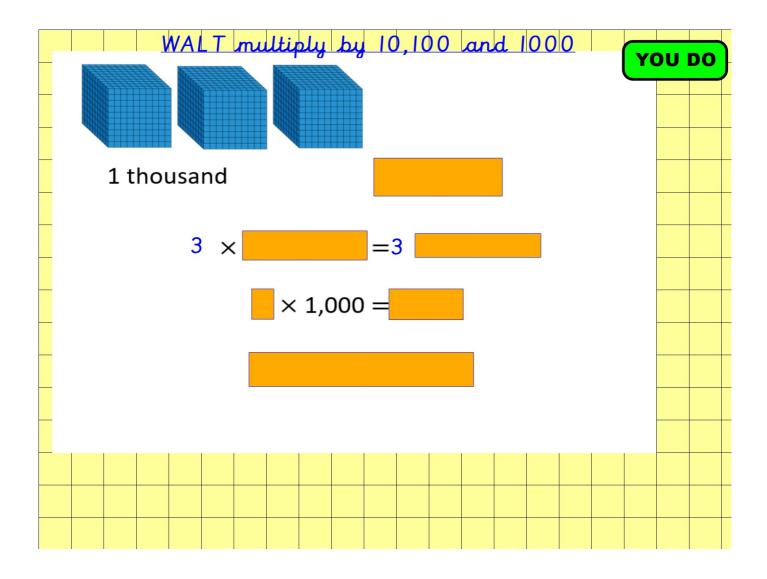
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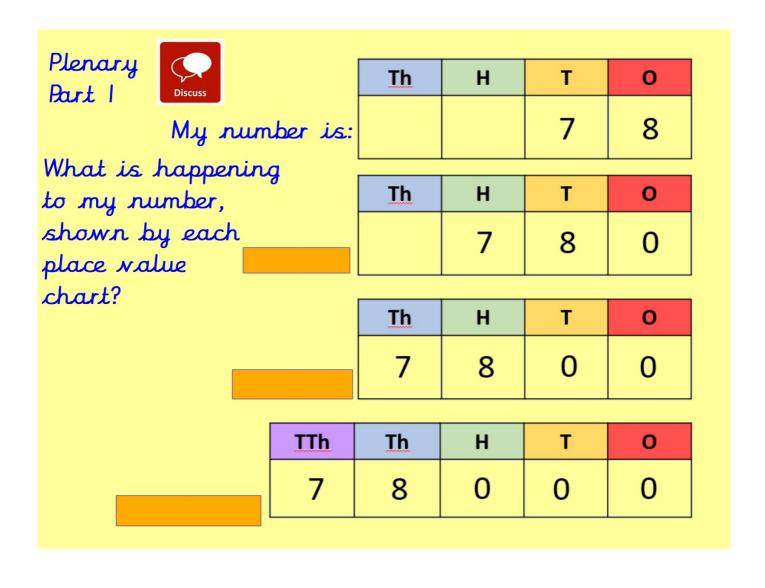
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Class questions - see next slide!
REASON AND PEER MARK FOR EVERY QUESTION!





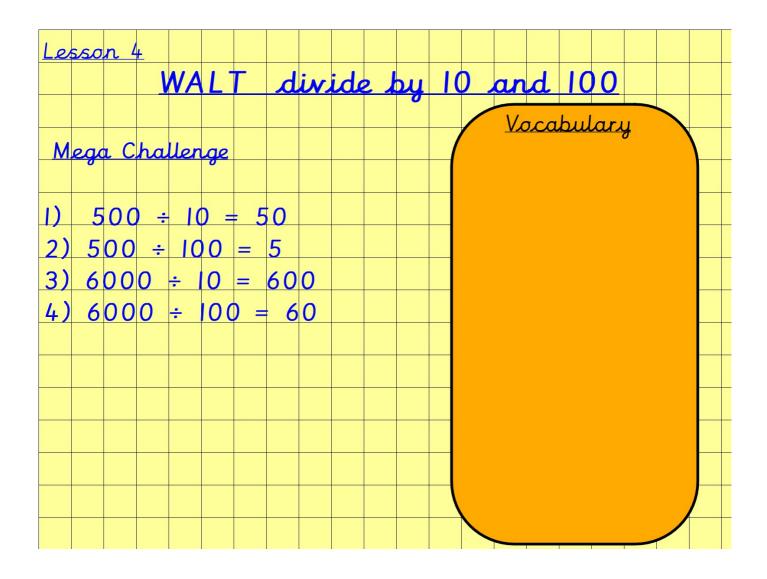




### Plenary Part 2

- 1) To multiply a number by 10 each digit moves to the left on a place value grid.
- 2) To multiply a number by 100 each digit moves to the left on a place value grid.
- 3) To multiply a number by 1,000 each digit moves to the left on a place value grid.

4MD-1 Multiplying and dividing by 10 and 100  Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size.	



# WALT divide by 10 and 100

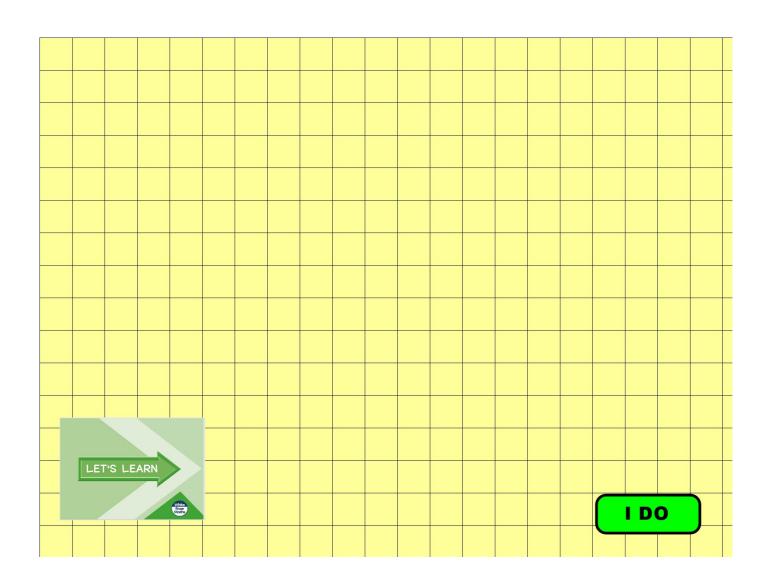
- 1)  $500 \div 10 = 50$
- 2) 500 ÷ 100 = 5
- 3)  $6000 \div 10 = 600$
- 4)  $6000 \div 100 = 60$

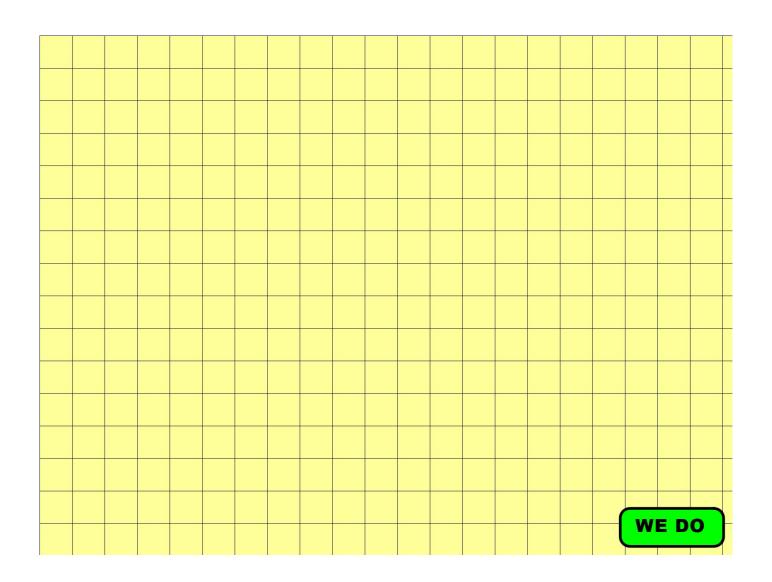
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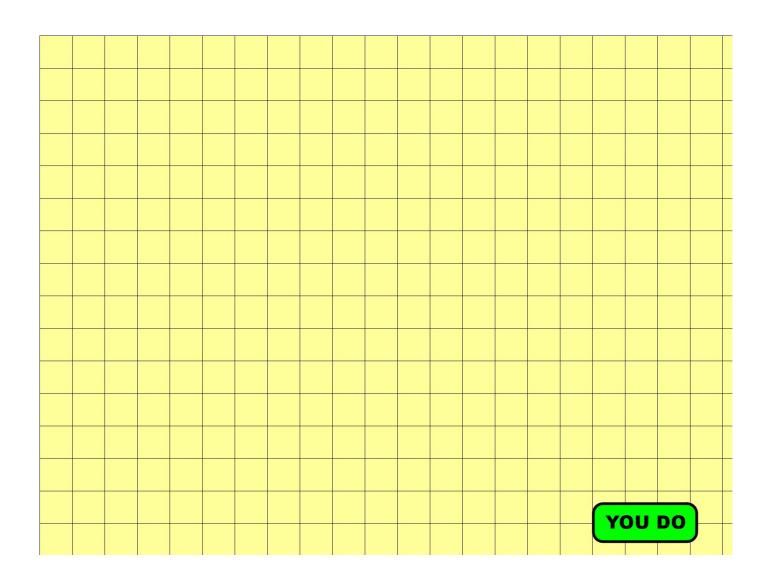
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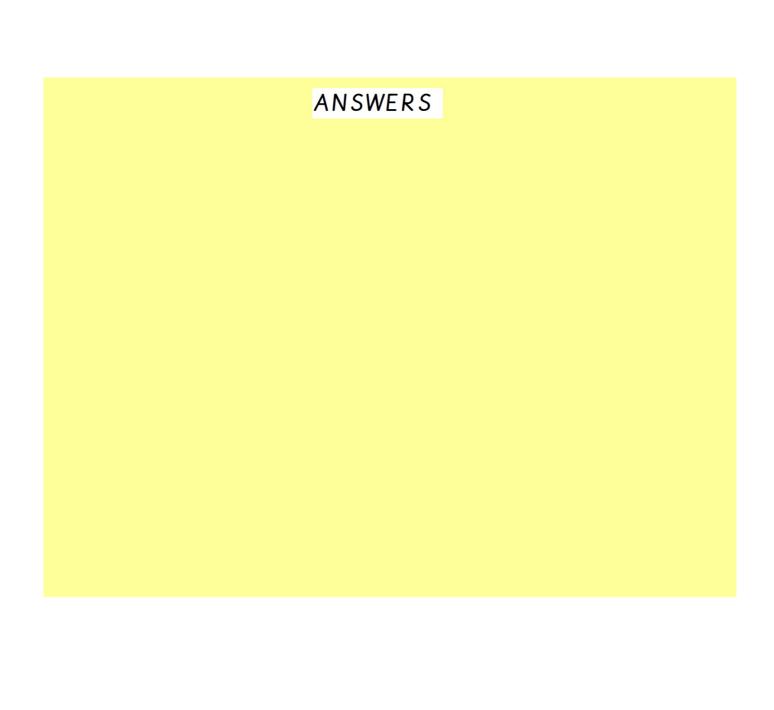
Class questions - see next slide! REASON AND PEER MARK FOR EVERY QUESTION!

WALT divide by 10 and 100
Do it!
Reason it!
Peer Mark it!





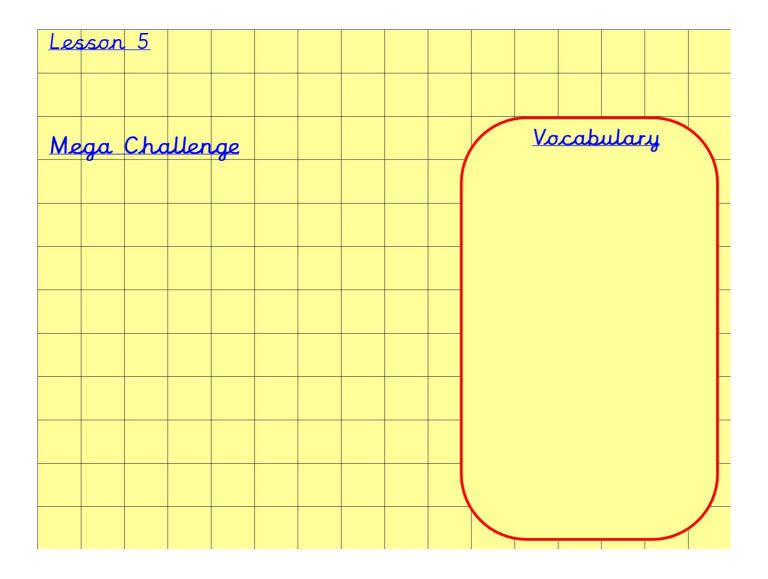






Plenary	
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4MD-1 Multiplying and dividing by 10 and 100  Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size.	

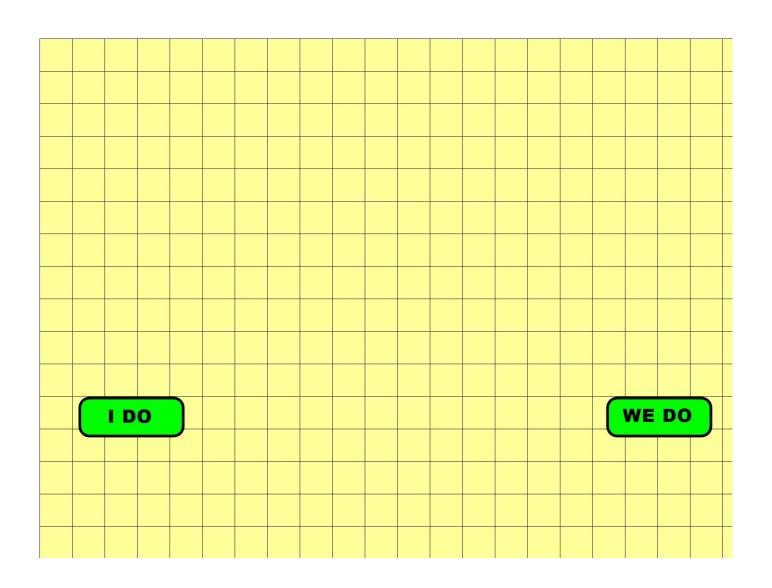


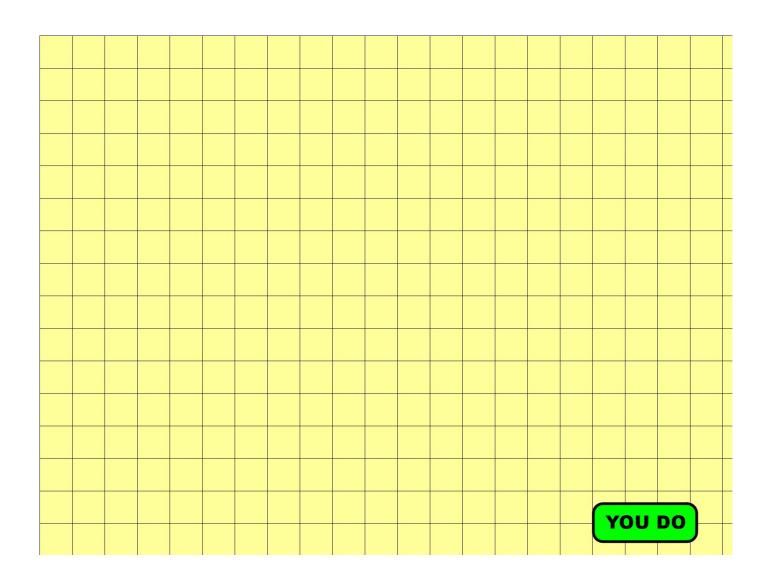
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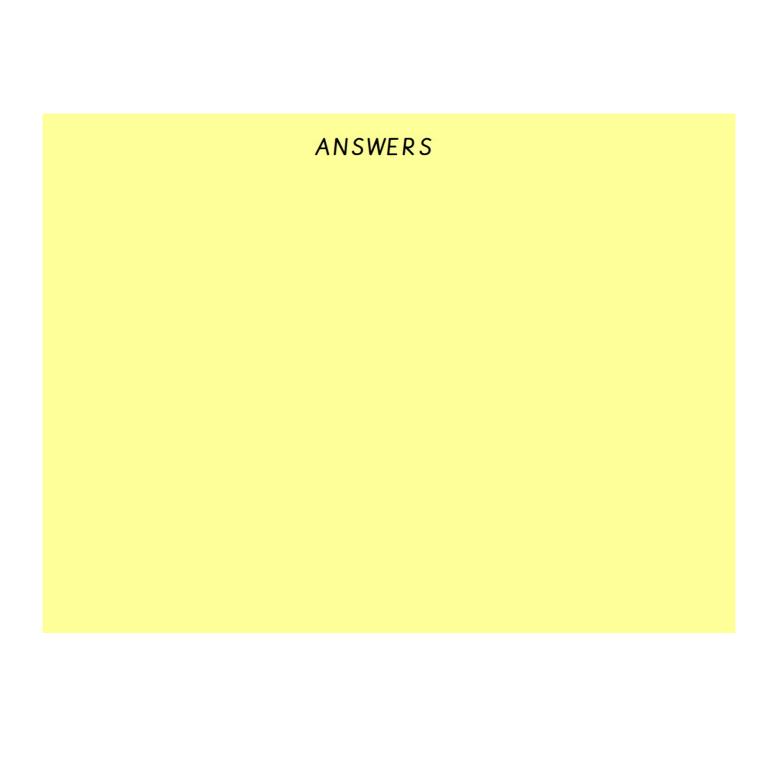
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Class questions - see next slide!
REASON AND PEER MARK FOR EVERY QUESTION!

Do it! Reason it! Peer Mark it!









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