



Year 3
Maths
Tuesday 7th July 2020



Lesson Aims

- **LO: I can multiply a 2 digit number by a 1 digit number.**
- SC: I can partition a number into 10s and 1s.
 - I can use times tables to help me.
 - I can times by 10.
- This lesson will be taught in two sections in school; multiplication first then division, with the sheet being completed in two sections.



Lesson Aims

- **For division**
- **LO: To divide 2 and 3 digit numbers by a single digit.**
- **SC:** I can partition in to tens and units.
- I can find 'how many groups of _____ 10s'.
- I can find 'how many groups of _____ units'.
- I can use a grid to help me.
- I can use bus stop method to help me.
- I can exchange a ten for ten units.
- I can work out the remainder.

- This lesson will be taught in two sections in school; multiplication first then division, with the sheet being completed in two sections.



Fluency Starter

- Start at 32 and count up in 10s. What comes next after 62?
- Start at 13 and count up in 10s. What comes after 83?
- Start at 67. What are the next 3 numbers when you count up in 10s?

100 Square

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Fluency Starter Answers

- Start at 32 and count up in 10s. What comes next after 62? **72**

- Start at 13 and count up in 10s. What comes after 83? **93**

- Start at 67. What are the next 3 numbers when you count up in 10s? **77, 87, 97**

100 Square

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Main Teaching

What words can you think of to describe this:

X



Main Teaching

What words can you think of to describe this:

X

repeated addition

multiplication

times

product

lots of

groups of

array



Fluency

- How would you solve

$$24 \times 8 =$$

Think about using a grid or jottings to help you.



Fluency

- We use a grid to multiply 2 digit numbers by 1 digit numbers.
- To do this we partition the two digit number and set it out like this.

	20	4
8	160	32

160 + 32 = 192



Fluency

- Try these:

- $22 \times 3 =$

- $18 \times 4 =$

- $26 \times 5 =$



Fluency Answers

- Try these:
- $22 \times 3 = 66$
- $18 \times 4 = 72$
- $26 \times 5 = 130$



Fluency

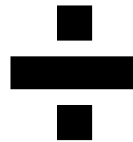
What words can you use to describe this symbol?





Fluency

What words can you use to describe this symbol?



division

divide

share

share equally

divisible by

divided by



Fluency

- How would you answer $69 \div 3 =$
- Think about using a grid, the bus stop method or jottings to help you.



Fluency Answer

$$\begin{array}{r|l|l} \div & 60 & 9 \\ \hline 3 & 20 & 3 \\ \hline \end{array}$$

$20 + 3 = 23$

$$3 \overline{) 23} \begin{array}{r} 23 \\ 69 \\ \hline \end{array}$$



Fluency

- If you are unsure how bus stop method works, please watch this video.
- <https://www.bbc.co.uk/bitesize/topics/z36tyrd/articles/zgxdfcw>



Fluency

- How would you solve

division with exchanging?

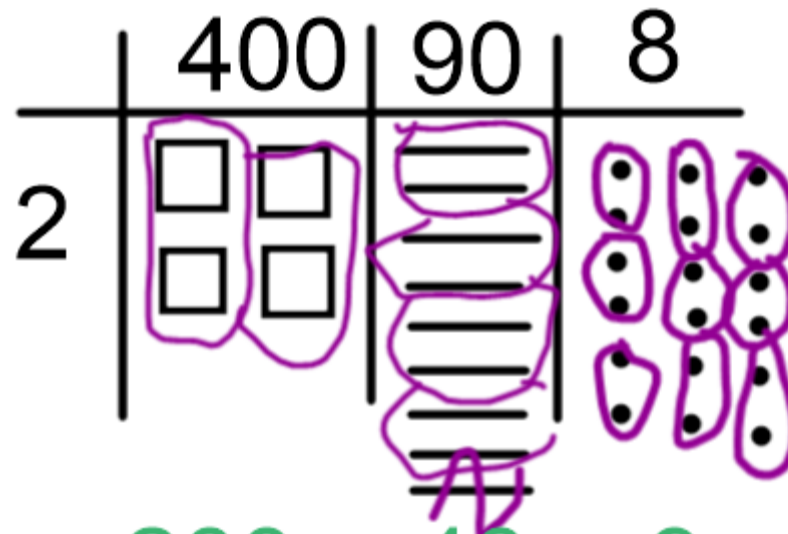
Think about using bus stop method, a grid or jottings to help you.

Try $258 \div 2 =$



Fluency Answers

$$\begin{array}{r} 249 \\ 2 \overline{) 498} \\ \underline{4} \\ 9 \\ \underline{18} \\ 0 \end{array}$$



$$200 + 40 + 9 = 249$$



Fluency

- Try these:
- $652 \div 2 =$
- $373 \div 3 =$
- $496 \div 2 =$



Fluency Answers

- Try these:
- $652 \div 2 = 326$
- $372 \div 3 = 124$
- $496 \div 2 = 248$



Activity

- Complete the sheet entitled MATHS TUESDAY WORKSHEET.
- There is a challenge sheet available.
- Don't forget to keep logging on to Doodle Maths where extras have been set for you. Getting those correct will help you earn more stars.
- Also there is maths work set on Purple Mash. It's all about multiplication and division, so give it a try.



Activity Answers

• $24 \times 3 = 72$

$22 \times 8 = 176$

• $36 \times 4 = 144$

$32 \times 3 = 96$

• $41 \times 8 = 328$

$43 \times 5 = 215$

• $52 \times 4 = 208$

$57 \times 5 = 285$



Activity Answers

- $48 \div 4 = 12$

$$86 \div 2 = 43$$

- $489 \div 4 = 122 \text{ r}1$

$$365 \div 3 = 121 \text{ r}2$$

- You now need to exchange:

- $345 \div 3 = 115$

$$456 \div 4 = 114$$

- $673 \div 3 = 224 \text{ r}1$

$$472 \div 2 = 236$$