

Maths- Skills

This lesson will be live on teams for
your class at;

9am-5L

10am-5H

11am-5M

Learning objective; To revisit column multiplication and bus stop
division.

Warm up-Vocabulary-

In your books decide if these pieces of vocabulary are related to multiplication or division.

Lots of times divide by share array
multiple of equally groups of lots of

Can you include any words of your own?

Multiplication	Division

To multiply using the column method

Examples with Mr L on the board.

First we multiply each of the digits 391 by 9.

$9 \times 1 = 9$
 $9 \times 9 = 81$ (put the 1 down; carry the 8)
 $9 \times 3 = 27$
 $27 + (\text{carried}) 8 = 35$

Now we multiply each of the digits 391 by 3. Because it is actually 30, not 3, we put a zero down first.

$3 \times 1 = 3$
 $3 \times 9 = 27$ (put the 7 down and carry the 2)
 $3 \times 3 = 9$ (plus the 2 which makes 11)

Last of all, we add the results of our calculations to get the answer.

$3519 + 11730 = 15249$

Fluency

1*

$$\begin{array}{r} 1) \quad 307 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 186 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 305 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 417 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 582 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 438 \\ \times \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 653 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 154 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 485 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 323 \\ \times 51 \\ \hline \end{array}$$

$$\begin{array}{r} 854 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} 483 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 900 \\ \times 65 \\ \hline \end{array}$$

$$\begin{array}{r} 323 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} 942 \\ \times 41 \\ \hline \end{array}$$

$$\begin{array}{r} 307 \\ \times 59 \\ \hline \end{array}$$

$$\begin{array}{r} 388 \\ \times 74 \\ \hline \end{array}$$

$$\begin{array}{r} 438 \\ \times 80 \\ \hline \end{array}$$

2*

$$\begin{array}{r} 5249 \\ \times 61 \\ \hline \end{array}$$

$$\begin{array}{r} 5156 \\ \times 61 \\ \hline \end{array}$$

$$\begin{array}{r} 8839 \\ \times 94 \\ \hline \end{array}$$

$$\begin{array}{r} 5847 \\ \times 76 \\ \hline \end{array}$$

3*

$$\begin{array}{r} 5456 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 9669 \\ \times 99 \\ \hline \end{array}$$

$$\begin{array}{r} 2151 \\ \times 75 \\ \hline \end{array}$$

$$\begin{array}{r} 8279 \\ \times 72 \\ \hline \end{array}$$

To Divide using the bus stop method

Examples with Mr L on the board.

$57 \div 3 = 19$

How many times does 3 go into 5?
It goes into 5 once and has a remainder of 2.

How many times does 3 go into 27?
It goes into 27 nine times and has no remainder.

Fluency- Division

1*

1. $429 \div 3 =$

2. $560 \div 4 =$

3. $615 \div 5 =$

4. $764 \div 4 =$

5. $288 \div 3 =$

6. $670 \div 5 =$

7. $488 \div 2 =$

8. $920 \div 4 =$

9. $363 \div 3 =$

10. $510 \div 5 =$

2*

Choose a level, feel free to swap
between difficulty

3*

1. $1047 \div 3 =$

2. $2456 \div 4 =$

3. $3295 \div 5 =$

4. $2784 \div 4 =$

5. $1011 \div 3 =$

6. $2780 \div 5 =$

7. $1564 \div 2 =$

8. $2244 \div 4 =$

9. $1944 \div 3 =$

10. $3150 \div 5 =$

Plenary- Will it have a remainder?

If a **divisor** (number I am dividing by) does not share equally into the **dividend** (number I am dividing) we will be left with a remainder.

*Using the knowledge-
the 5 times table always ends in a 5 or 0.*

Can you tell me which questions will have a remainder?

You do not need to work them out.

1) $342 \div 5 =$ 2) $205 \div 5 =$ 3) $4321 \div 5 =$ 5) $8735 \div 5 =$ 6) $95 \div 5 =$

Answers - multiplication

1*

1) $\begin{array}{r} 307 \\ \times 2 \\ \hline 614 \end{array}$	2) $\begin{array}{r} 186 \\ \times 5 \\ \hline 930 \end{array}$	3) $\begin{array}{r} 305 \\ \times 3 \\ \hline 915 \end{array}$	4) $\begin{array}{r} 417 \\ \times 2 \\ \hline 834 \end{array}$
5) $\begin{array}{r} 582 \\ \times 3 \\ \hline 1746 \end{array}$	6) $\begin{array}{r} 438 \\ \times 1 \\ \hline 438 \end{array}$	7) $\begin{array}{r} 653 \\ \times 2 \\ \hline 1306 \end{array}$	8) $\begin{array}{r} 154 \\ \times 5 \\ \hline 770 \end{array}$

3*

$\begin{array}{r} 5249 \\ \times 61 \\ \hline 5249 \\ 314940 \\ \hline 320189 \end{array}$	$\begin{array}{r} 5156 \\ \times 61 \\ \hline 5156 \\ 309360 \\ \hline 314516 \end{array}$	$\begin{array}{r} 8839 \\ \times 94 \\ \hline 35356 \\ 795510 \\ \hline 830866 \end{array}$	$\begin{array}{r} 5847 \\ \times 76 \\ \hline 35082 \\ 409290 \\ \hline 444372 \end{array}$
$\begin{array}{r} 5456 \\ \times 22 \\ \hline 10912 \\ 109120 \\ \hline 120032 \end{array}$	$\begin{array}{r} 9669 \\ \times 99 \\ \hline 87021 \\ 870210 \\ \hline 957231 \end{array}$	$\begin{array}{r} 2151 \\ \times 75 \\ \hline 10755 \\ 150570 \\ \hline 161325 \end{array}$	$\begin{array}{r} 8279 \\ \times 72 \\ \hline 16558 \\ 579530 \\ \hline 596088 \end{array}$

2*

$\begin{array}{r} 485 \\ \times 34 \\ \hline 1,940 \\ 14,550 \\ \hline 16,490 \end{array}$	$\begin{array}{r} 323 \\ \times 51 \\ \hline 323 \\ 16,150 \\ \hline 16,473 \end{array}$	$\begin{array}{r} 854 \\ \times 70 \\ \hline 59,780 \end{array}$	$\begin{array}{r} 483 \\ \times 54 \\ \hline 1,932 \\ 24,150 \\ \hline 26,082 \end{array}$	$\begin{array}{r} 900 \\ \times 65 \\ \hline 4,500 \\ 54,000 \\ \hline 58,500 \end{array}$
$\begin{array}{r} 323 \\ \times 39 \\ \hline 2,907 \\ 9,690 \\ \hline 12,597 \end{array}$	$\begin{array}{r} 942 \\ \times 41 \\ \hline 942 \\ 37,680 \\ \hline 38,622 \end{array}$	$\begin{array}{r} 307 \\ \times 59 \\ \hline 2,763 \\ 15,350 \\ \hline 18,113 \end{array}$	$\begin{array}{r} 388 \\ \times 74 \\ \hline 1,552 \\ 27,160 \\ \hline 28,712 \end{array}$	$\begin{array}{r} 438 \\ \times 80 \\ \hline 35,040 \end{array}$

Answers - Division

1*

1. 143

2. 140

3. 123

4. 191

5. 96

6. 134

7. 244

8. 230

9. 121

10. 102

3*

1. 349

2. 614

3. 659

4. 696

5. 337

6. 556

7. 782

8. 561

9. 648

10. 630