

Maths- Skills

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

9am-5L

10am-5H

11am-5M

Learning objective; To revisit multiplying and dividing by 10, 100 1000.

Warm up- Which of these statements are true or false. Can you explain why?

True or **False?**

There are 13 marbles and two jars, if you share them equally, there will be none left over.

Explain your answer.

True or **False?**

5×4 is equal to 4×5

Explain your answer.

True or **False?**

Multiplication is the inverse (opposite) of division.

Explain your answer.

True or **False?**

If you divide a number by 2, the answer is always even.


Explain your answer.

Multiplying and Dividing by 10, 100 and 1000

10 000	1000	100	10	1	●	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
					●			


Multiplying

X 10 digits move LEFT 1 space
 X 100 digits move LEFT 2 spaces
 X 1000 digits move LEFT 3 spaces



Dividing

÷ 10 digits move RIGHT 1 space
 ÷ 100 digits move RIGHT 2 spaces
 ÷ 1000 digits move RIGHT 3 spaces



Jumping
activity

- Looking at this support sheet, can you tell me any other facts about multiplying and dividing by 10, 100, 1000?
- Why do I move one place when operating with 10? 2 with 100? 3 with 1000?
- So how would I multiply or divide by 1000000?

Fluency

1*

Multiply the following numbers by 10, 100 and 1000 to complete the table.

	x 10	x 100	x 1000
5.7			
23.02			
0.92			
0.306			
24.67			

Multiply the following numbers by 10, 100 and 1000 to complete the table.

	x 10	x 100	x 1000
4.02			
0.045			
34.094			
209.817			
0.006			

2*

Complete the following table.

	÷ 1000	x 100	÷ 10
6.45			
0.501			
			93.6
	7.18		

3*

Reasoning- lets look at and discuss these questions.

Whitney has £1,020 in her bank account.

Tommy has £120 in his bank account.

Whitney says,



I have ten times
more money than
you

Is Whitney correct? Explain your reasoning.

Jack is thinking of a 3-digit number.

When he multiplies his number by 100, the ten thousands and hundreds digit are the same.

The sum of the digits is 10

What number could Jack be thinking of?

Plenary- Missing number

1. Use the multiplication and division facts below to fill in the missing numbers to complete the calculations

Multiplication/Division Fact	Missing number calculation
$6.4 \times 10 = 64$	$64 \div 10 =$
$75 \div 10 = 7.5$	$7.5 \times 10 =$
$6530 \div 100 = 65.3$	$65.3 \times 100 =$
$24.5 \times 100 = 2450$	$2450 \div 100 =$
$7.6 \times 1000 = 7600$	$7600 \div 1000 =$
$45 \div 100 = 0.45$	$0.45 \times 100 =$

2. Fill in the missing numbers in these multiplication calculations:

a. $53 \times \underline{\hspace{2cm}} = 530$

b. $\underline{\hspace{2cm}} \times 10 = 340$

c. $38 \times \underline{\hspace{2cm}} = 3800$

d. $\underline{\hspace{2cm}} \times 1000 = 4000$