

## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

The pattern was that after 5 their were decimals and with on top of 5 there is integers.

What do you think would happen if you multiplied your number by 1,000,000?

The zeros will go 6 to the right.

What do you think would happen if you multiplied your number by 0.00001?

The 4 zeros will go to the left and then a decimal will go before the first zero. Before decimal will be a zero.

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5000

What happened? (If there was a pattern, what was it?)

It was the opposite of the last pattern. This time on top of 5, zeros went to the left. After 5, zeros went to the right.

What do you think would happen if you multiplied your number by 1,000,000?

The 6 zeros will go to left with a decimal.

What do you think would happen if you multiplied your number by 0.00001?

It would go 5 zeros to the right and make an integers.

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

How did you figure out your answers?  
 When you multiply <sup>decimals</sup> it goes zeros to the left based on the 2nd factor. When you divide with decimals the zeros go to the right.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

Were your predictions correct? Why?  
 Yes, because my answers matched and my strategy worked to solve the problems.

## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

The zeros were growing and it went by 5's.

What do you think would happen if you multiplied your number by 1,000,000?

Then it would equal 5,000,000

What do you think would happen if you multiplied your number by 0.00001?

Then the answer would be 0.00005

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5000

What happened? (If there was a pattern, what was it?)

The zeros got smaller then got bigger.

What do you think would happen if you multiplied your number by 1,000,000?

It would be 5,000,000

What do you think would happen if you multiplied your number by 0.00001?

It would be 0.00005

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

How did you figure out your answers?

In part one and two had a pattern.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

Were your predictions correct? Why?

They are all correct because I had seen a pattern.

## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.01
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

That all the numbers have a 0 and a 1 and five in it.

What do you think would happen if you multiplied your number by 1,000,000?

I think it will get confusing.

What do you think would happen if you multiplied your number by 0.00001?

I think you might not know how to figure it out.

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5000

What happened? (If there was a pattern, what was it?)

The pattern that I see is part 1 has the forward numbers and part 2 does the numbers backwards.

What do you think would happen if you multiplied your number by 1,000,000?

You might get the answer if it's division.

What do you think would happen if you multiplied your number by 0.00001?

You can get confused and get it wrong but you can learn it.

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.01
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

How did you figure out your answers?

How I figured it out  
was I seen a pattern  
in part 1 and part 2.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.01
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

Were your predictions correct? Why?

I think they were  
because I checked  
my answers after

## Part 1

Starting with 5	
# × 1000 =	5,000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

The Pattern was  
because the  $5 \times 1000 = 5,000$   
because i changed the 1,000  
and got the 1 and changed it  
into a .5 so it was 5000

What do you think would happen if you multiplied your number by 1,000,000?

I will get 5,000,000  
because change the 1 to  
5 and see the pattern

What do you think would happen if you multiplied your number by 0.00001?

I will get 0.00005  
again because the pattern  
and change the number

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5,000

What happened? (If there was a pattern, what was it?)

there was a Pattern and  
it was all just like  
the other one but  
backwards, And Part 1 goes bigger

What do you think would happen if you multiplied your number by 1,000,000?  
to small and the other one is smaller to bigger

i don't, 0,000,000  
it says multiply

What do you think would happen if you multiplied your number by 0.00001?

divided it will be 0.00005

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

How did you figure out your answers?

by doing it backwards  
like the other one  
but divided it.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

Were your predictions correct? Why?

I got them right because  
I did and saw a pattern  
and they followed it.



## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

You kept taking away  
a zero then add.

What do you think would happen if you multiplied your number by 1,000,000?

It would equal 5,000,000.

What do you think would happen if you multiplied your number by 0.00001?

I think because of the  
pattern it will equal 0.00005.

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5000

What happened? (If there was a pattern, what was it?)

It goes smaller  
than higher.

What do you think would happen if you multiplied your number by 1,000,000?

It decimal of one millionth

What do you think would happen if you multiplied your number by 0.00001?

It might make a whole.

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.7
# ÷ 100 =	0.07
# ÷ 10 =	0.007
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

How did you figure out your answers?

I looked at the pattern from the other side and tried to get the answer right

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

Were your predictions correct? Why?

Only 3 were wrong I of them differently.

## Part 1

Starting with 5	
# × 1000 =	5,000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

The pattern was the same amount of zeros as the second factor.

What do you think would happen if you multiplied your number by 1,000,000?

The answer will be 5,000,000.

What do you think would happen if you multiplied your number by 0.00001?

It will be 0.00001

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5,000

What happened? (If there was a pattern, what was it?)

It is the opposite! Like the first answer in part 1 was 5,000 in part 2 it started in the bottom.

What do you think would happen if you multiplied your number by 1,000,000?

The answer is 0.000005.

What do you think would happen if you multiplied your number by 0.00001?

It will be 5,000,000

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.007
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

How did you figure out your answers?

I knew the pattern  
from part 1 and 2.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

Were your predictions correct? Why?

How I got my answers  
correct because  
I remembered the  
pattern.

## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

The zeros were taken away. If there was a pattern it will be taking all the zeros and then adding them.

What do you think would happen if you multiplied your number by 1,000,000?

It will be 5,000,000

What do you think would happen if you multiplied your number by 0.00001?

It will be 0.00005

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50.
# ÷ 0.01 =	500.
# ÷ 0.001 =	5000.

What happened? (If there was a pattern, what was it?)

The zeros were taken away and then put back.

What do you think would happen if you multiplied your number by 1,000,000?

It will be 0.000005

What do you think would happen if you multiplied your number by 0.00001?

500000.

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70.
# ÷ 0.01 =	700.
# ÷ 0.001 =	7000.

How did you figure out your answers?

I figured that if the ones on the back had the same operation so I thought it might be correct,

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

Were your predictions correct? Why?

My predictions were correct because I looked at the ones on the front and just changed the five

## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	5

What happened? (If there was a pattern, what was it?)

adding zero and then  
adding five that the  
pattern.

What do you think would happen if you multiplied your number by 1,000,000?

five would be 5,000,000  
that what it would be.

What do you think would happen if you multiplied your number by 0.00001?

by five would be 0.00005  
that what it would be.

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	0.05
# ÷ 0.001 =	5000

What happened? (If there was a pattern, what was it?)

adding zero and then it  
add five that would be  
the pattern

What do you think would happen if you multiplied your number by 1,000,000?

five would be 5,000,000 that  
what it would be.

What do you think would happen if you multiplied your number by 0.00001?

adding five would be 0.00005  
that the answer.

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

How did you figure out your answers?

by the pattern that  
 here I got my answers.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7000

Were your predictions correct? Why?

I predictions that my  
 is correct because I  
 have I feeling inside  
 my that it correct.



## Part 1

Starting with 5	
# × 1000 =	5,000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

It was 5,000,  
500, 50, 5, and then  
I noticed that the  
decimals started  
for the same thing.

What do you think would happen if you multiplied your number by 1,000,000?

It will be  
5,000,000.

What do you think would happen if you multiplied your number by 0.00001?

It will be  
0.00005

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5,000

What happened? (If there was a pattern, what was it?)

It was the  
same as the other  
side except backwards  
down up.

What do you think would happen if you multiplied your number by 1,000,000?

It will be  
0.000005

What do you think would happen if you multiplied your number by 0.00001?

It will be  
500,000

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

How did you figure out your answers?

I noticed the answers were the same on the back and just had to switch the five into a 7. And Mr. Spoke taught me how to do it.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

Were your predictions correct? Why?

Yes they were because the decimals if you take the zeros out and divide or multiply you get in this point & the number is 7 so it's 7.

## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

Its going down by  
the zeros.

What do you think would happen if you multiplied your number by 1,000,000?

I think that the answer  
will be 5,000,000

What do you think would happen if you multiplied your number by 0.00001?

I think it would be 0.00005.

## Part 2

Starting with 5	
# ÷ 1000 =	500
# ÷ 100 =	50
# ÷ 10 =	5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5000

What happened? (If there was a pattern, what was it?)

The pattern is that it  
is going down but then up.

What do you think would happen if you multiplied your number by 1,000,000?

I think that the answer  
would be 500,000.

What do you think would happen if you multiplied your number by 0.00001?

I think it would be  
500,000.

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	<del>7</del> 700
# ÷ 100 =	70
# ÷ 10 =	7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

How did you figure out your answers?

I did a pattern to understand my questions.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	700
# ÷ 100 =	70
# ÷ 10 =	7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

Were your predictions correct? Why?

Yes because if the calculator was right, my patterns were correct.

## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

all numbers would be starting off with 5 on each answers.

What do you think would happen if you multiplied your number by 1,000,000?

It would be 5,000,000 or any number would multiply.

What do you think would happen if you multiplied your number by 0.00001?

it would be around zero.

## Part 2

Starting with 5	
# ÷ 1000 =	5000
# ÷ 100 =	500
# ÷ 10 =	50
# ÷ 1 =	5
# ÷ 0.1 =	50.
# ÷ 0.01 =	500.
# ÷ 0.001 =	5000.

What happened? (If there was a pattern, what was it?)

all divisions would start at 5 and zeros but not the ÷ to 5 on one number.

What do you think would happen if you multiplied your number by 1,000,000?

would be 5,000,000

What do you think would happen if you multiplied your number by 0.00001?

would be the answer to 0.00005

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
<hr/>	
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	70000

How did you figure out your answers?

i used the problems backwards to see my answers.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
<hr/>	
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	70000

Were your predictions correct? Why?

Yes because its a pattern on each answer of the word problem.

Part 1

Starting with 5	
# × 1000 =	5,000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.05
# × 0.01 =	0.005
# × 0.001 =	0.0005

What happened? (If there was a pattern, what was it?)

The pattern is, the first numbers are normal then the

What do you think would happen if you multiplied your number by 1,000,000?

\_\_\_\_\_

What do you think would happen if you multiplied your number by 0.00001?

\_\_\_\_\_

Part 2

Starting with 5	
# ÷ 1000 =	0.0005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5,000

What happened? (If there was a pattern, what was it?)

\_\_\_\_\_

What do you think would happen if you multiplied your number by 1,000,000?

\_\_\_\_\_

What do you think would happen if you multiplied your number by 0.00001?

\_\_\_\_\_

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.07
# × 0.01 =	
# × 0.001 =	
# ÷ 1000 =	
# ÷ 100 =	
# ÷ 10 =	
# ÷ 1 =	
# ÷ 0.1 =	
# ÷ 0.01 =	
# ÷ 0.001 =	

How did you figure out your answers?

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**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	
# × 100 =	
# × 10 =	
# × 1 =	
# × 0.1 =	
# × 0.01 =	
# × 0.001 =	
# ÷ 1000 =	
# ÷ 100 =	
# ÷ 10 =	
# ÷ 1 =	
# ÷ 0.1 =	
# ÷ 0.01 =	
# ÷ 0.001 =	

Were your predictions correct? Why?

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## Part 1

Starting with 5	
# × 1000 =	5,000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

The pattern will be a number and it will be big and then it will get smaller

What do you think would happen if you multiplied your number by 1,000,000?

it will be 5,000,000

What do you think would happen if you multiplied your number by 0.00001?

it would be 0.00005

## Part 2

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5000

What happened? (If there was a pattern, what was it?)

Smaller to greatest if the pattern was division

What do you think would happen if you multiplied your number by 100,000?

it will be 0.000005

What do you think would happen if you multiplied your number by 0.00001?

it will be 50000

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

How did you figure out your answers?

because  $7 \div 1000 = 0.007$   
 $0.007 \times 1000 = 7$  etc.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	
# × 100 =	
# × 10 =	
# × 1 =	
# × 0.1 =	
# × 0.01 =	
# × 0.001 =	
# ÷ 1000 =	
# ÷ 100 =	
# ÷ 10 =	
# ÷ 1 =	
# ÷ 0.1 =	
# ÷ 0.01 =	
# ÷ 0.001 =	

Were your predictions correct? Why?

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Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

Its going by 5's.

What do you think would happen if you multiplied your number by 1,000,000?

5,000,000.

What do you think would happen if you multiplied your number by 0.00001?

0.00005

Part 2

Starting with 5	
# ÷ 1000 =	5,000
# ÷ 100 =	500
# ÷ 10 =	50
# ÷ 1 =	5
# ÷ 0.1 =	0.5
# ÷ 0.01 =	0.05
# ÷ 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

The numbers greatest to least

What do you think would happen if you multiplied your number by 1,000,000?

The same as part 1

What do you think would happen if you multiplied your number by 0.00001?

0.00005

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	
# ÷ 100 =	
# ÷ 10 =	
# ÷ 1 =	
# ÷ 0.1 =	
# ÷ 0.01 =	
# ÷ 0.001 =	

How did you figure out your answers?

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**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	
# × 100 =	
# × 10 =	
# × 1 =	
# × 0.1 =	
# × 0.01 =	
# × 0.001 =	
# ÷ 1000 =	
# ÷ 100 =	
# ÷ 10 =	
# ÷ 1 =	
# ÷ 0.1 =	
# ÷ 0.01 =	
# ÷ 0.001 =	

Were your predictions correct? Why?

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## Part 1

Starting with 5	
# × 1000 =	5000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

The pattern I saw was that answers are adding more zero's and on the bottom the only thing that is different is that

the answers are backwards, if you take away the dot it will be the same answer as the other works

What do you think would happen if you multiplied your number by 1,000,000?

the answer will be bigger it will be 5,000,000

What do you think would happen if you multiplied your number by 0.00001?

the answer would be 0.00005  
you're taking away the one from it.

## Part 2

Starting with 5	
# ÷ 1000 =	5000
# ÷ 100 =	500
# ÷ 10 =	50
# ÷ 1 =	5
# ÷ 0.1 =	0.5
# ÷ 0.01 =	0.05
# ÷ 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

the pattern is bigger to smaller

What do you think would happen if you multiplied your number by 1,000,000?

the answer get bigger  
5,000,000

What do you think would happen if you multiplied your number by 0.00001?

the answer gets smaller.  
0.00005

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	7000
# ÷ 100 =	700
# ÷ 10 =	70
# ÷ 1 =	7
# ÷ 0.1 =	0.7
# ÷ 0.01 =	0.07
# ÷ 0.001 =	0.007

How did you figure out your answers?

How I got the answer is by taking away the 1

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	7000
# ÷ 100 =	700
# ÷ 10 =	70
# ÷ 1 =	7
# ÷ 0.1 =	0.7
# ÷ 0.01 =	0.07
# ÷ 0.001 =	0.007

Were your predictions correct? Why?

It was correct because I checked if my answer was correct or wrong

Part 1

Starting with 5	
# × 1000 =	5,000
# × 100 =	500
# × 10 =	50
# × 1 =	5
# × 0.1 =	0.5
# × 0.01 =	0.05
# × 0.001 =	0.005

What happened? (If there was a pattern, what was it?)

First you take away 0's then you add 0's.

What do you think would happen if you multiplied your number by 1,000,000?

I think the pattern won't make sense.

What do you think would happen if you multiplied your number by 0.00001?

I think the pattern won't make sense.

Part 2

4-21-18

Starting with 5	
# ÷ 1000 =	0.005
# ÷ 100 =	0.05
# ÷ 10 =	0.5
# ÷ 1 =	5
# ÷ 0.1 =	50
# ÷ 0.01 =	500
# ÷ 0.001 =	5,000

What happened? (If there was a pattern, what was it?)

First you take away 0's then you add 0's.

What do you think would happen if you multiplied your number by 1,000,000?  
divided

The pattern won't make sense.

What do you think would happen if you multiplied your number by 0.00001?

The pattern won't make sense.

4-21-16

**Part 3 - Predict the products and quotients (NO calculators)**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

How did you figure out your answers?

I used the back to help me and it gave me some clues.

**Part 3 - Use calculators to check your predictions**

Starting with 7	
# × 1000 =	7,000
# × 100 =	700
# × 10 =	70
# × 1 =	7
# × 0.1 =	0.7
# × 0.01 =	0.07
# × 0.001 =	0.007
# ÷ 1000 =	0.007
# ÷ 100 =	0.07
# ÷ 10 =	0.7
# ÷ 1 =	7
# ÷ 0.1 =	70
# ÷ 0.01 =	700
# ÷ 0.001 =	7,000

Were your predictions correct? Why?

Yes because I used the back to help me and it did, it actually gave me clues.