

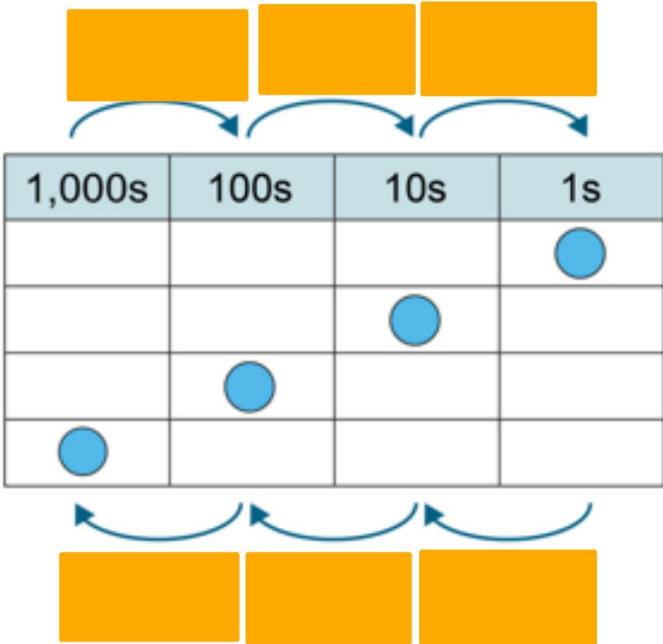
26.4.21

What are tenths and hundredths?

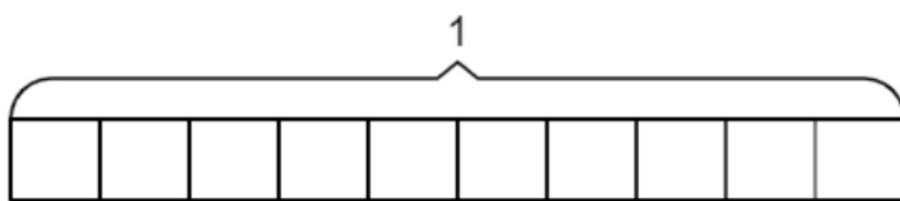
What do you know about 100?

What do you know about 1,000?

What happens to the counter?



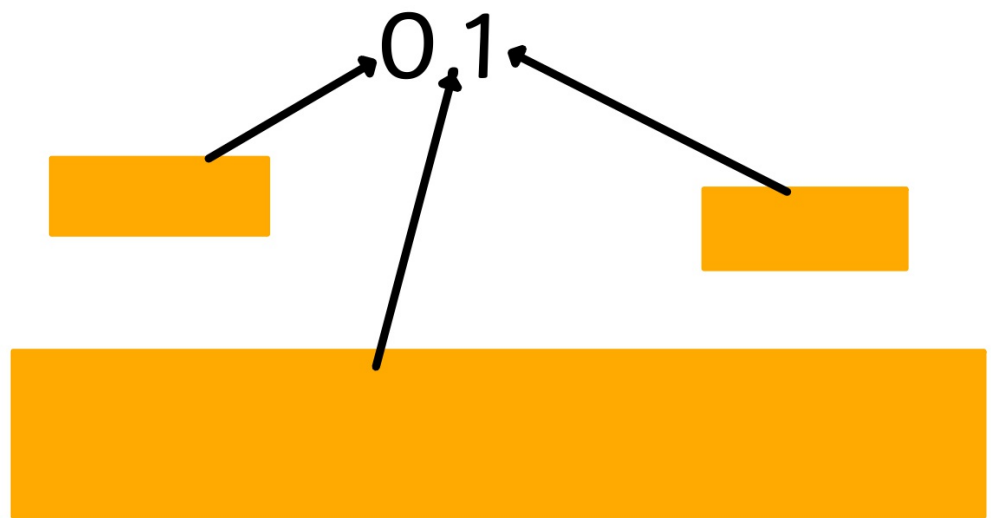
What is the value of each part?



How many tenths are equivalent to 1?



What does each part tell you?

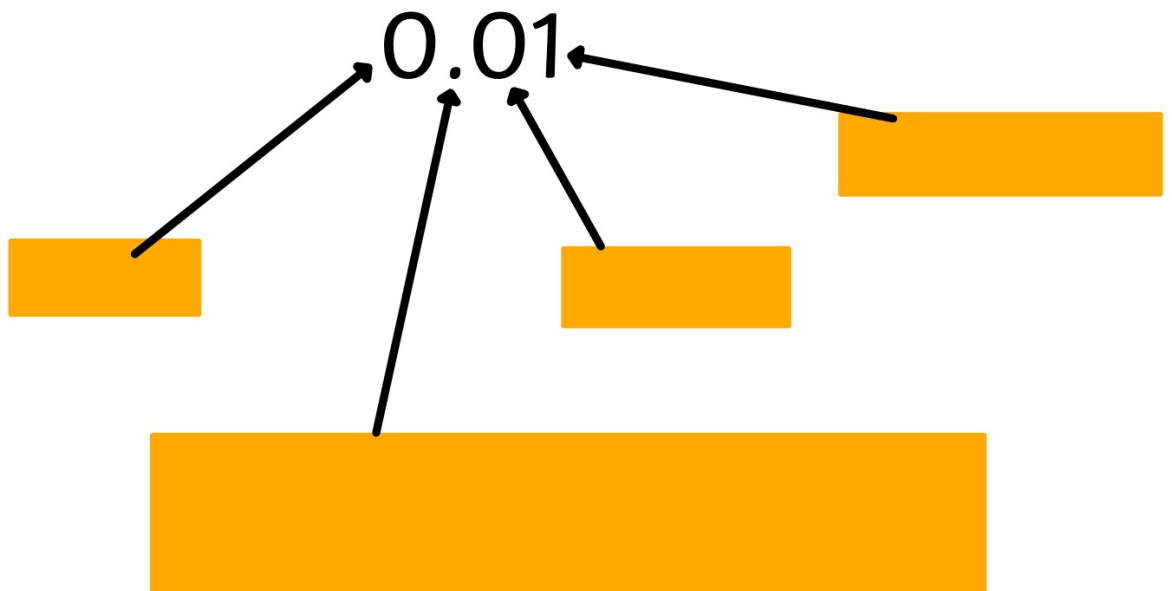




How many tenths altogether?



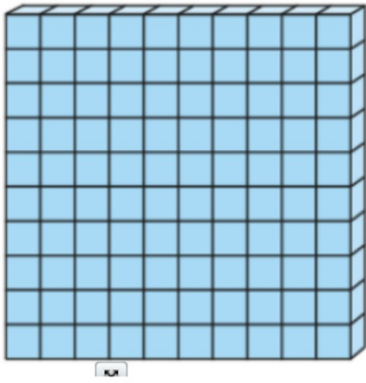
What does each part tell you?



0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01

How many hundredths altogether?





1 whole
1



1 tenth
0.1



1 hundredth
0.01

10 tenths are equivalent to 1 one.

10 hundredths are equivalent to 1 tenth.

10 tenths are equivalent to 1 one

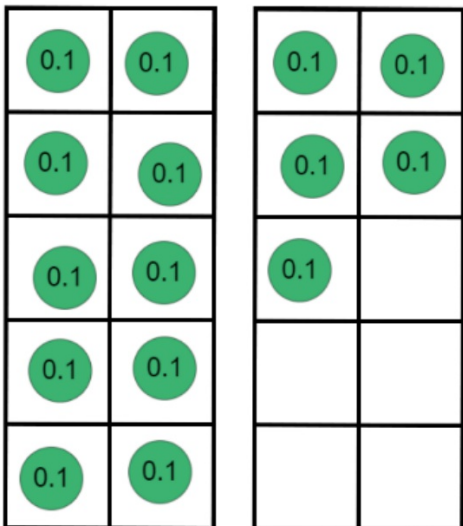
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

How many tenths?

What is the number?

10 tenths are equivalent to 1 one



How many tenths?

What is the number?

10 tenths are equivalent to 1 one

Now collect some counters and complete some yourself.

How many tenths?

What is the number?

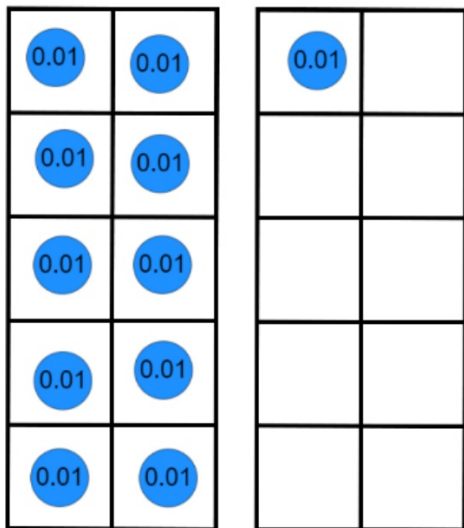
10 hundredths are equivalent to 1 tenth

0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01
0.01	0.01		

How many hundredths?

What is the number?

10 hundredths are equivalent to 1 tenth



How many hundredths?

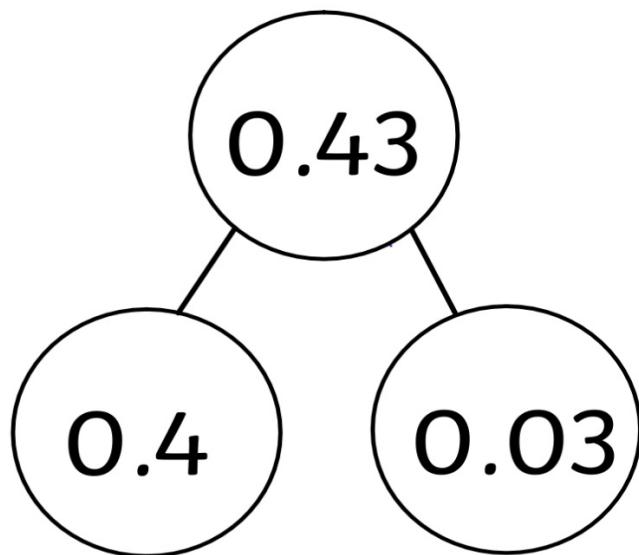
What is the number?

10 tenths are equivalent to 1 one.

10 hundredths are equivalent to 1 tenth.

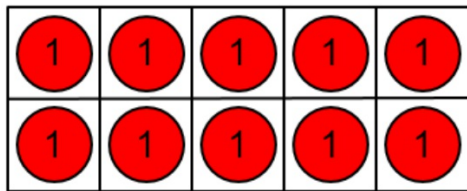
Plenary

What is the fact family?



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How are they related?

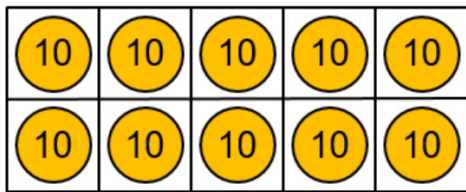


Count in steps of 1 to 10

How many steps did you count?

How many ones are equivalent to 10?



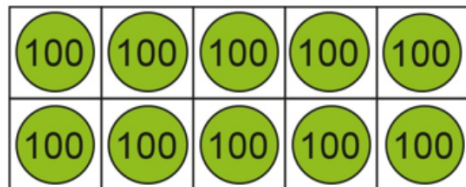


Count in steps of 10 to 100

How many steps did you count?

How many tens are equivalent to 100?





Count in steps of 100 to 1,000

How many steps did you count?

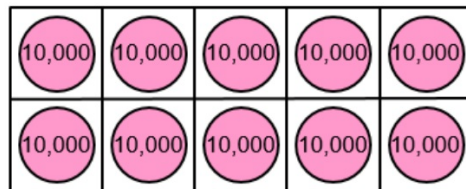
How many hundreds are equivalent to 1,000?



1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000

Count in steps of 1,000 to 10,000
How many steps did you count?
How many thousands are equivalent
to 10,000?



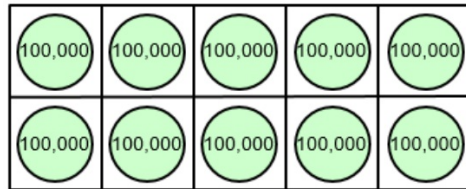


Count in steps of 10,000 to 100,000

How many steps did you count?

How many ten thousands are equivalent to 100,000?





Count in steps of 100,000 to 1,000,000

How many steps did you count?

How many hundred thousands are equivalent to 1,000,000?



1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
1,000,000	1,000,000	1,000,000	1,000,000	1,000,000

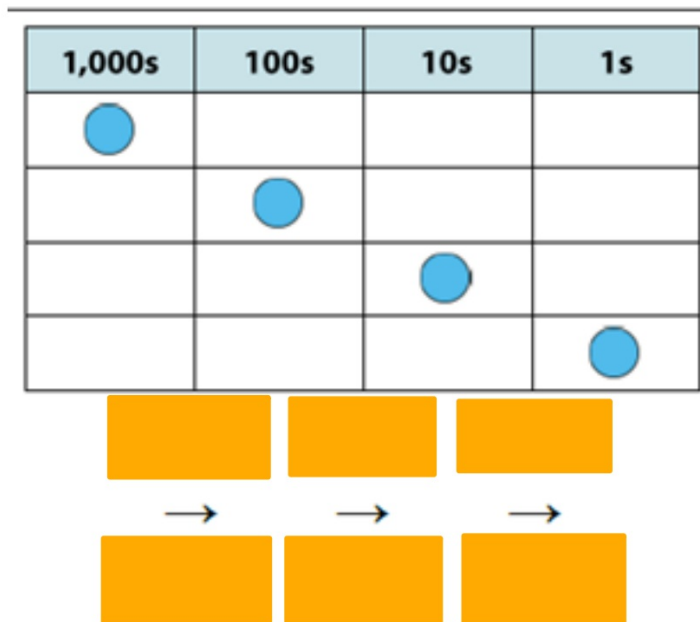
Count in steps of 1,000,000 to 10,000,000

How many steps did you count?

How many millions are equivalent to 10,000,000?



What is happening to the value of the counter?



Millions			Thousands			Ones			-ths	
100s	10s	1s	100s	10s	1s	100s	10s	1s		
								0	0	1
								0	1	
								1		
							1	0		
						1	0	0		
					1	0	0	0		
				1	0	0	0	0		
		1	0	0	0	0	0	0		
	1	0	0	0	0	0	0	0		



What is the value of the one in each column?
 How does the value change at it moves one place to the left?

0 . 0 1	one hundredth
0 . 1	one tenth
1	one
1 0	ten
1 0 0	one hundred
1 , 0 0 0	one thousand
1 0 , 0 0 0	ten thousand
1 0 0 , 0 0 0	one hundred thousand
1 , 0 0 0 , 0 0 0	one million
1 0 , 0 0 0 , 0 0 0	ten million

Read each row top to bottom and then bottom to top.

What happens to the value of the 1?

How are the commas used?

1,000,000	2,000,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000	8,000,000	9,000,000
100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
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
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

What do you notice?
How are the numbers related?

1,000,000	2,000,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000	8,000,000	9,000,000
100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
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
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

How many times greater is 10 than 1?



How many times smaller is 1 than 10



1,000,000	2,000,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000	8,000,000	9,000,000
100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
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
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

How many times greater is 10 than 0.1?



How many times smaller is 0.1 than 10?



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What is the value?

10 hundredths are equivalent to



10 tenths are equivalent to



10 ones are equivalent to



10 tens are equivalent to



10 hundreds are equivalent to



10 thousands are equivalent to



10 ten thousands are equivalent to

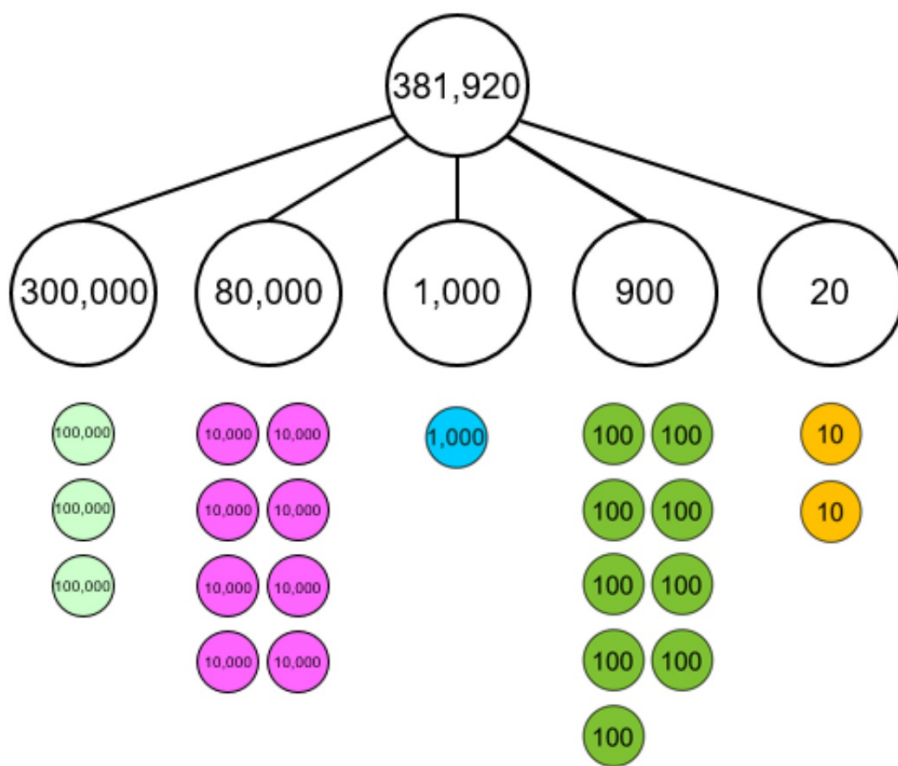


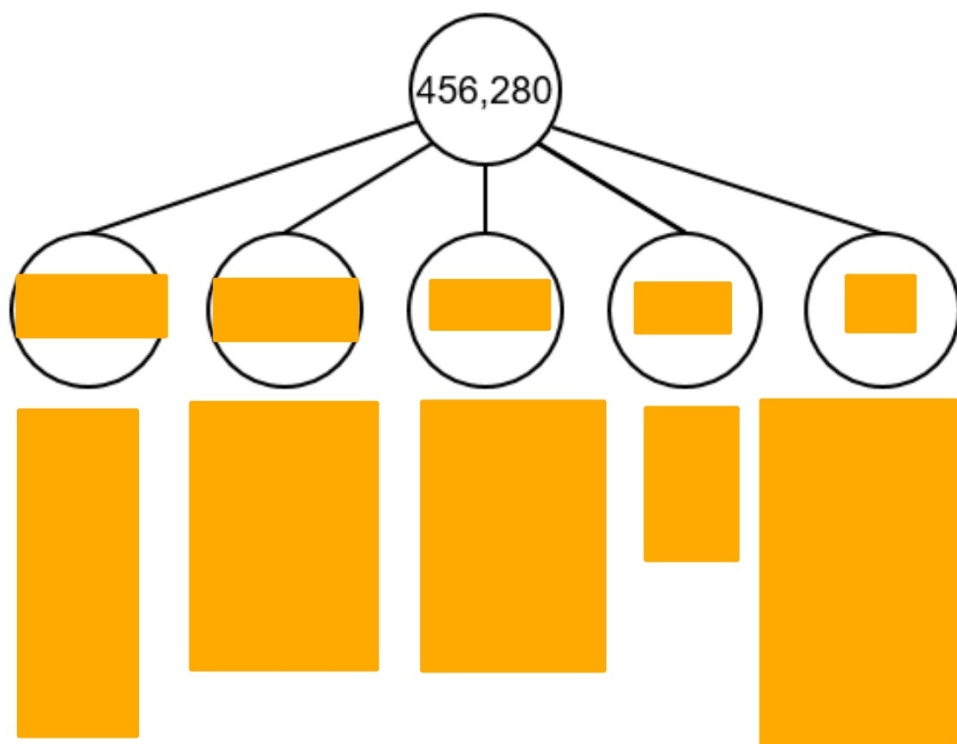
10 hundred thousands are equivalent to



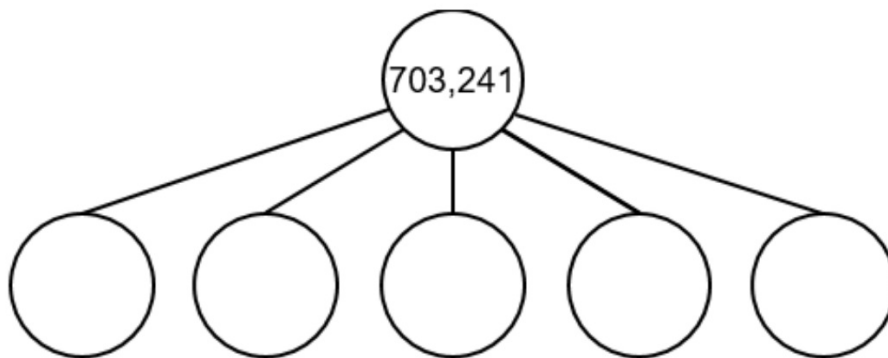
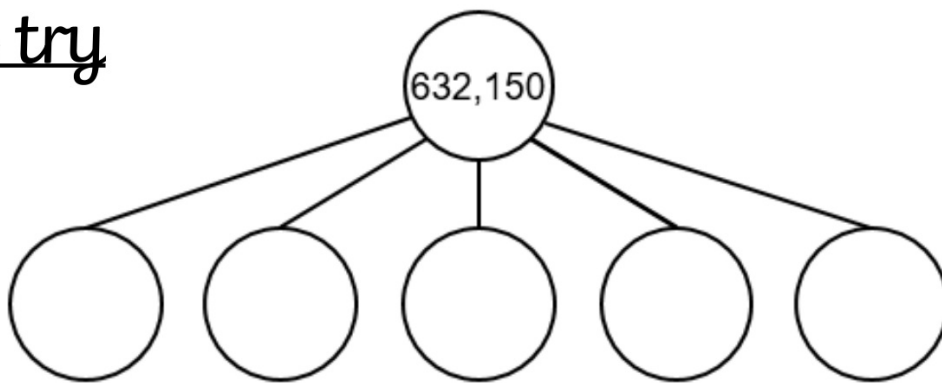
10 millions are equivalent to







You try



Millions			Thousands			Ones		
100s	10s	1s	100s	10s	1s	100s	10s	1s
					1	9	3	7

one thousand, nine hundred and thirty-seven

1,937

Millions			Thousands			Ones		
100s	10s	1s	100s	10s	1s	100s	10s	1s
					1	9	3	7
				5	1	9	3	7

What is the number?



Millions			Thousands			Ones		
100s	10s	1s	100s	10s	1s	100s	10s	1s
					1	9	3	7
				5	1	9	3	7
			4	5	1	9	3	7

What is the number?



Millions			Thousands			Ones		
100s	10s	1s	100s	10s	1s	100s	10s	1s
					1	9	3	7
				5	1	9	3	7
			4	5	1	9	3	7
		5	4	5	1	9	3	7

What is the number?



Millions			Thousands			Ones		
100s	10s	1s	100s	10s	1s	100s	10s	1s
		6	7	3	2	9	0	1
		6	5	2	7	2	8	9

Say the numbers.

Write the numbers down using commas.

Which number is the largest?

How do you know?

Task

Look at the numbers you have rolled.

Put them in order from smallest to largest.

From the first activity choose a number.

Write the number in words.

Represent the value of each digit.

What is the difference between your number and your partner's number?

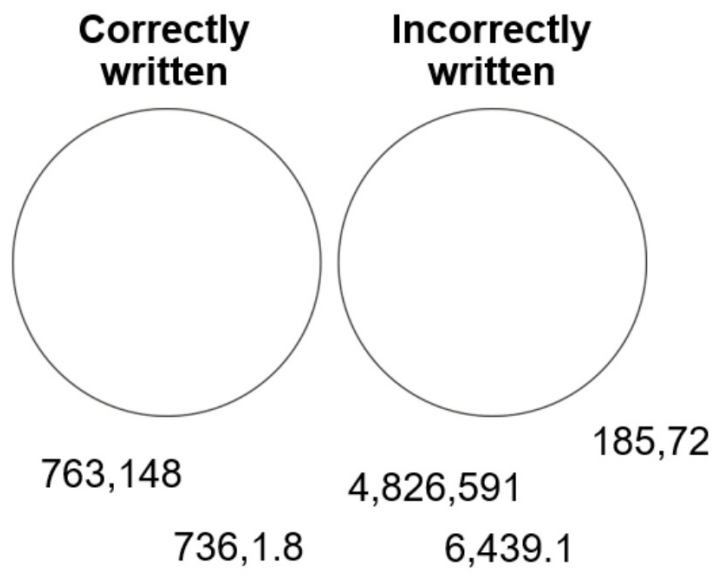
Can you swap a digit to make it larger?

Can you swap a digit to make it smaller?

What is the smallest number you can make using the digits you have rolled?

What is the largest number you can make using the digits you have rolled?

Plenary



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Can you solve problems?

573,921

Read the number.

What is the value of each digit?



Millions			Thousands			Ones				
100s	10s	1s	100s	10s	1s	100s	10s	1s	0.1s	0.01s
		3	8	7	0	2	9	1	4	6

Write the number.

Say the number.

What is the value of each digit?

Millions			Thousands			Ones		
100s	10s	1s	100s	10s	1s	100s	10s	1s
		2	3	3	2	5	7	2

Write the number.

Say the number

What is the value of each digit?

1,000,000	2,000,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000	8,000,000	9,000,000
100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
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
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09






Write the number.

Say the number.






What is the value of each digit?

What do you notice in this calculation?

$$381,920 - 900 =$$

Thousands			Ones		
H	T	O	H	T	O
					

381,920

Thousands			Ones		
H	T	O	H	T	O
					

$$\begin{array}{r}
 381,920 \\
 - \quad 900 \\
 \hline
 381,020
 \end{array}$$

$456,921 + 3,000 = \boxed{}$

$576,231.04 - 0.04 = \boxed{}$

$342,731 + 20,000 = \boxed{}$

$432,823 - 400,000 = \boxed{}$

$534,082 - 70 = \boxed{}$

$432,897 - 2,200 = \boxed{}$

$$543,928 - \text{[redacted]} = 540,928$$

$$\text{[redacted]} + 20,000 = 472,721$$

$$634,092.3 + \text{[redacted]} = 634,292.8$$

$$\text{[redacted]} - 1,500 = 761,391$$