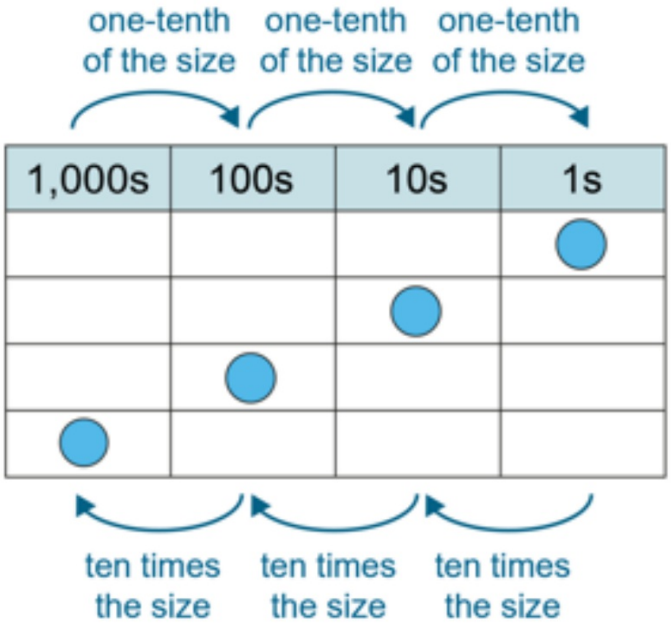
26.4.21

What are tenths and hundredths?

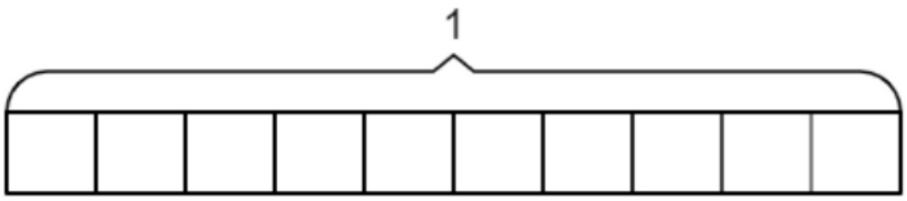
What do you know about 100?

What do you know about 1,000?

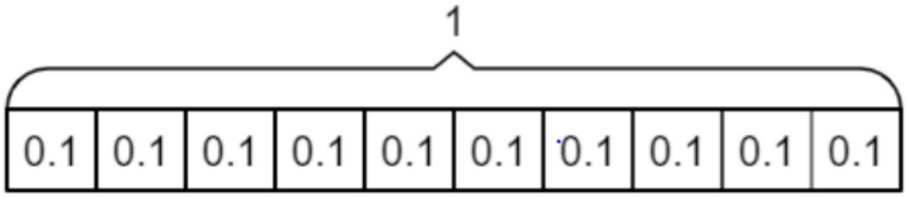
What happens to the counter?



What is the value of each part?

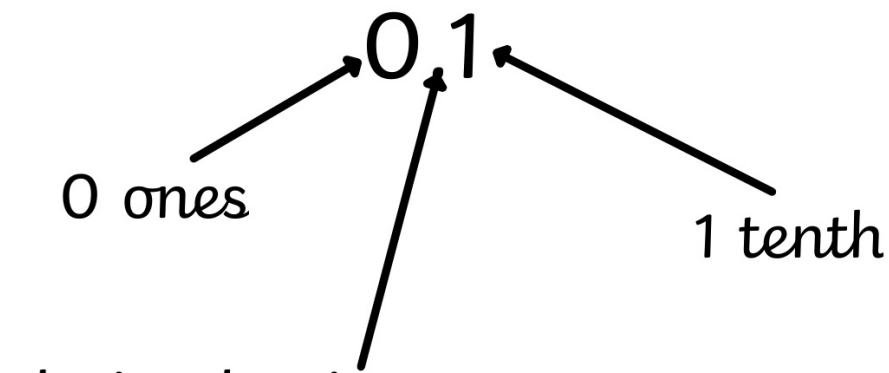


How many tenths are equivalent to 1?



10 tenths are equivalent to 1

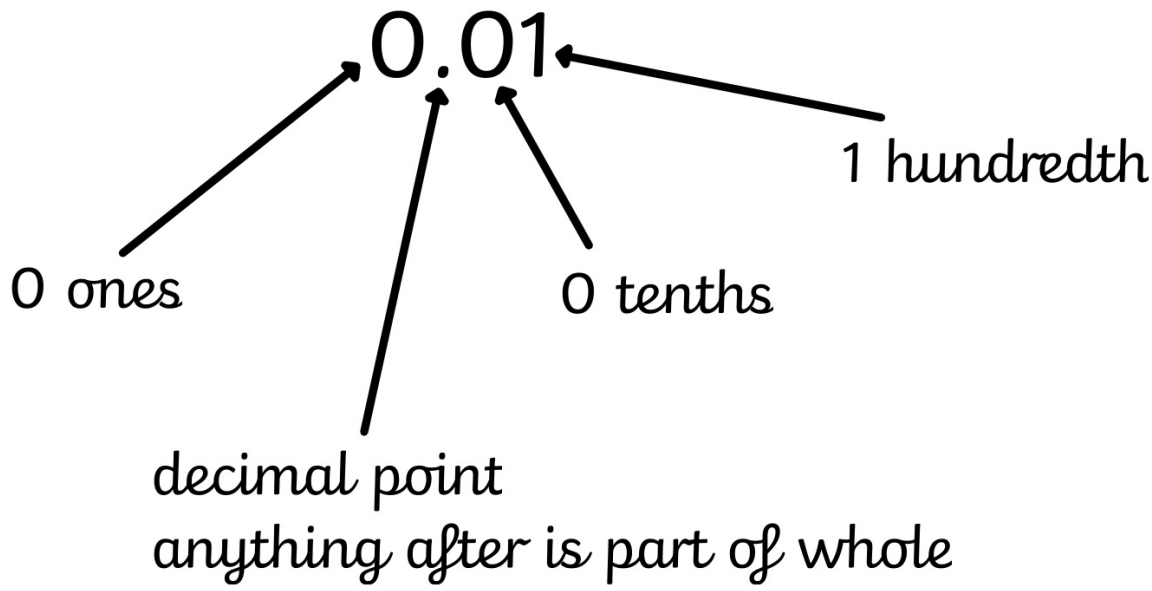
What does each part tell you?



How many tenths altogther?

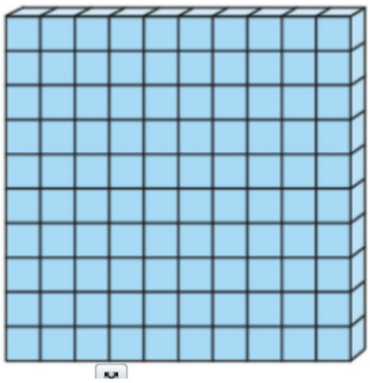
10 tenths are equivalent to 1

What does each part tell you?



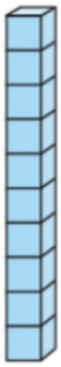
How many hundredths altogther?

10 hundredths are equivalent to 1 tenth.



1 whole

1



1 tenth

0.1

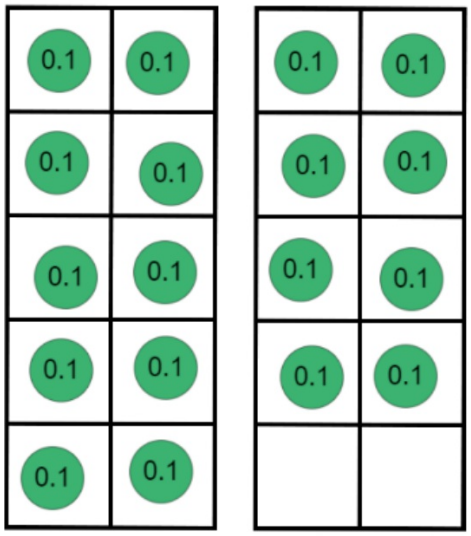
1 hundredth

0.01

10 tenths are equivalent to 1 one.

10 hundredths are equivalent to 1 tenth.

10 tenths are equivalent to 1 one

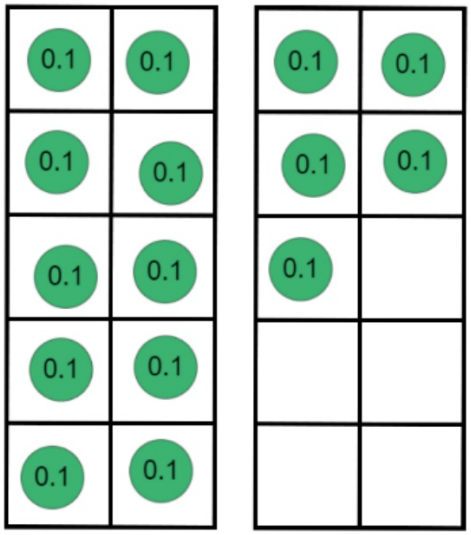


How many tenths? 18 tenths

What is the number? 1.8

18 tenths = 1.8

10 tenths are equivalent to 1 one



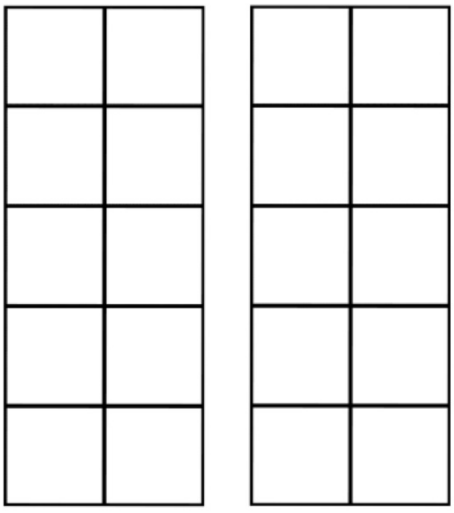
How many tenths? 15 tenths

What is the number? 1.5

15 tenths = 1.5

10 tenths are equivalent to 1 one

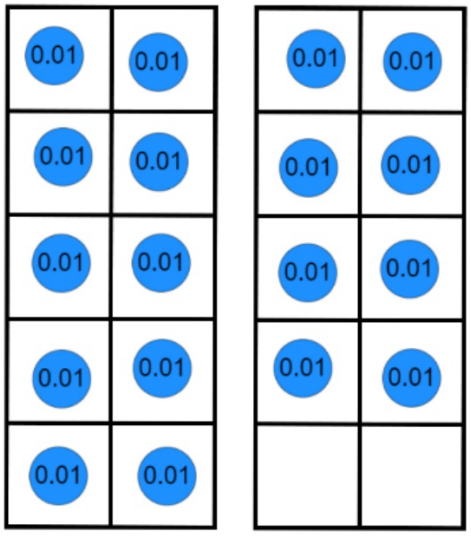
Now collect some counters and complete some yourself.



How many tenths?

What is the number?

10 hundredths are equivalent to 1 tenth

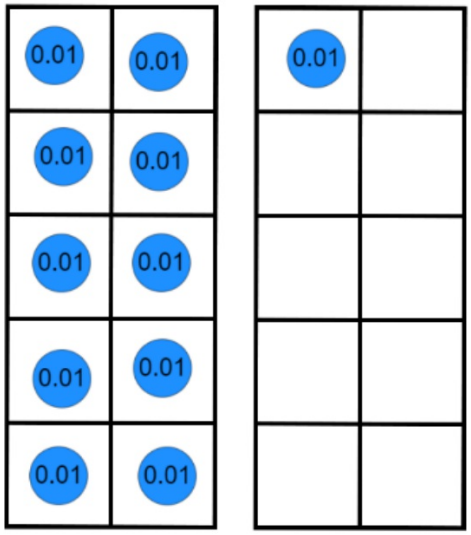


How many hundredths?
18 hundreths

What is the number?
0.18

18 hundredths = 0.18

10 hundredths are equivalent to 1 tenth



How many hundredths?
11 hundreths

What is the number?
0.11

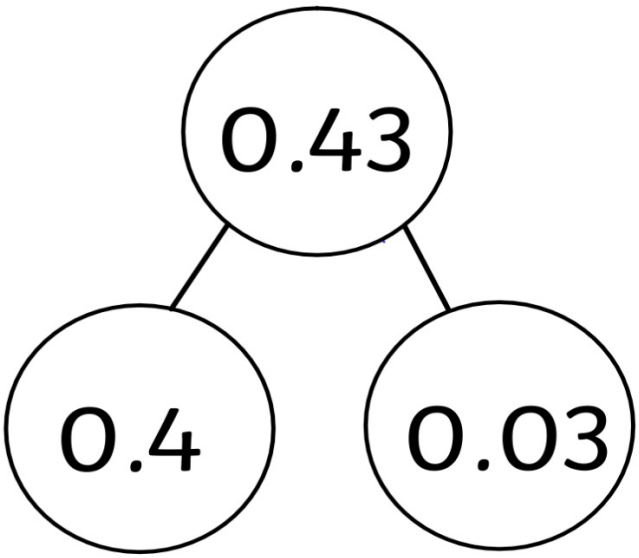
11 hundredths = 0.11

10 tenths are equivalent to 1 one.

10 hundredths are equivalent to 1 tenth.

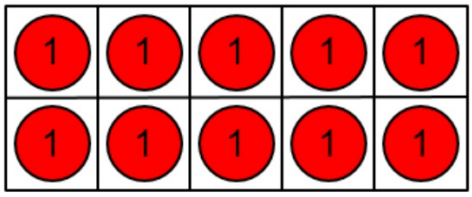
Plenary

What is the fact family?



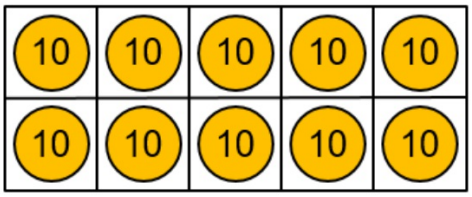
27.4.21

How are they related?



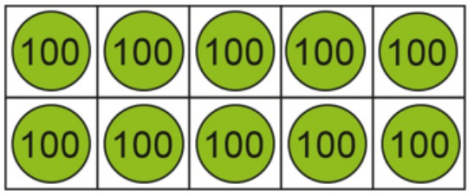
Count in steps of 1 to 10
How many steps did you count?
How many ones are equivalent to 10?

10 ones are equivalent to 10



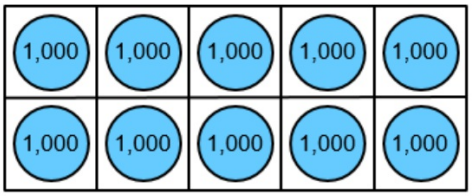
Count in steps of 10 to 100
How many steps did you count?
How many tens are equivalent to 100?

10 tens are equivalent to 100



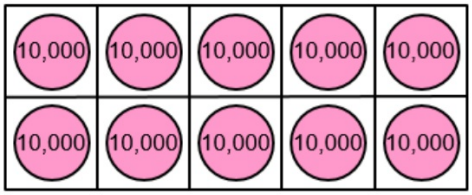
Count in steps of 100 to 1,000
How many steps did you count?
How many hundreds are equivalent to 1,000?

10 hundreds are equivalent to 1,000



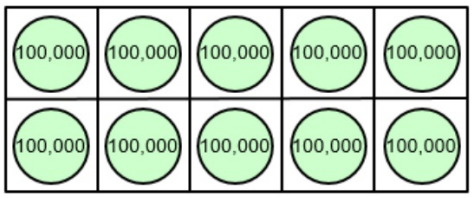
Count in steps of 1,000 to 10,000
How many steps did you count?
How many thousands are equivalent to 10,000?

10 thousands are equivalent to 10,000



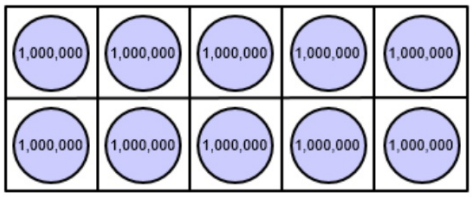
Count in steps of 10,000 to 100,000
How many steps did you count?
How many ten thousands are equivalent to 100,000?

10 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?

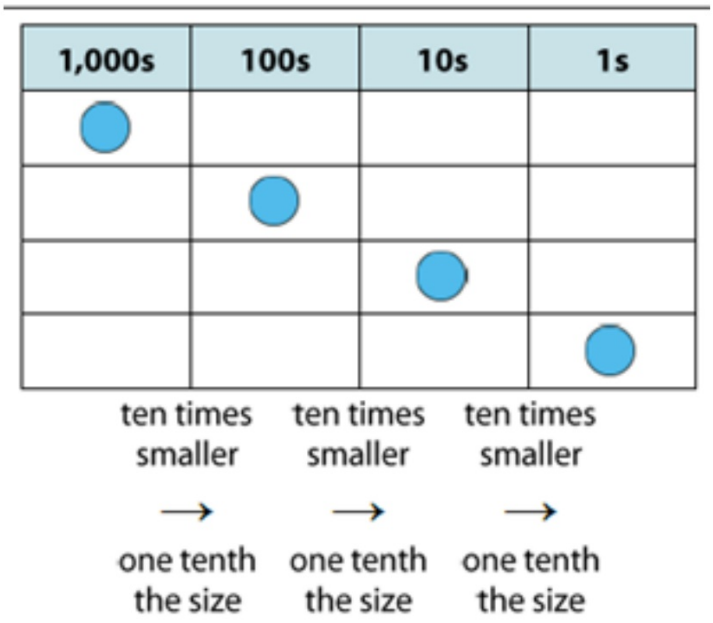
10 hundred thousands are equivalent to 1,000,000



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?

10 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		
		1	0	0	0	0	0	0		
	1	0	0	0	0	0	0	0		

The 1 beco
10 times the
as it moves
place to the
1,000 is ten
the size of

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

0.01	one hundredth
0.1	one tenth
1	one
10	ten
100	one hundred
1,000	one thousand
10,000	ten thousand
100,000	one hundred thousand
1,000,000	one million
10,000,000	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?
10 is 10 times the size of 1. 1 multiplied by 10 is equal to 10.

How many times smaller is 1 than 10
1 is 10 one-tenth the size of 1. 10 divided by 10 is equal to 1.

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?
10 is one hundred times the size of 0.1. 0.1 multiplied by 100 is equal to 10.

How many times smaller is 0.1 than 10?
0.1 is one hundredth the size of 10. 10 divided by 100 is equal to 0.1

29.4.21

What is the value?

10 hundredths are equivalent to 0.1 or one tenth.

10 tenths are equivalent to 1.

10 ones are equivalent to 10.

10 tens are equivalent to 100.

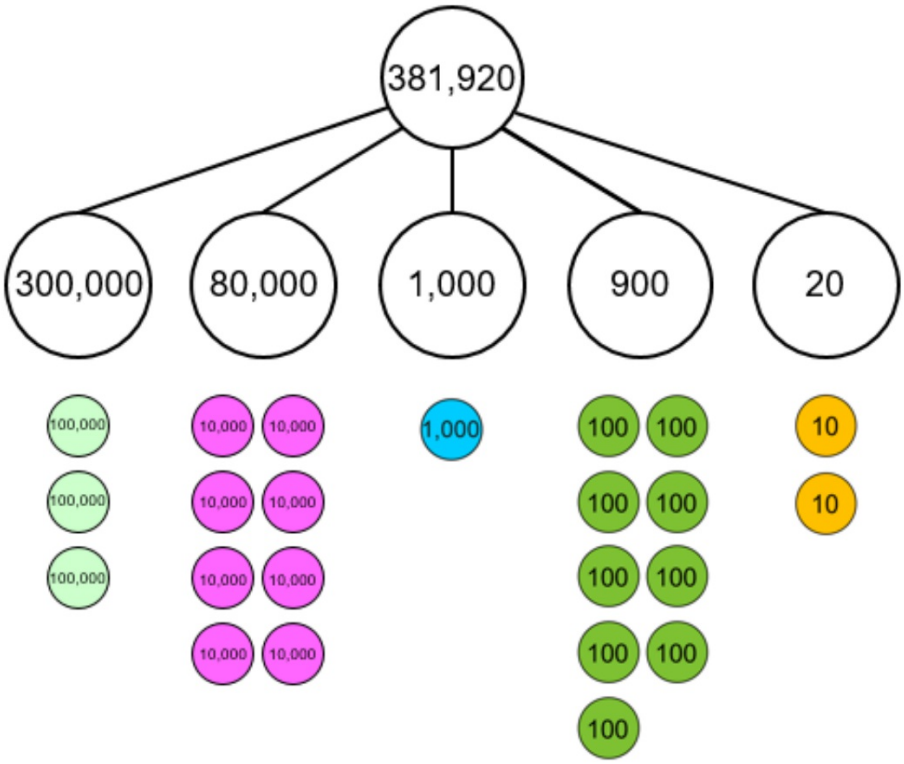
10 hundreds are equivalent to 1000.

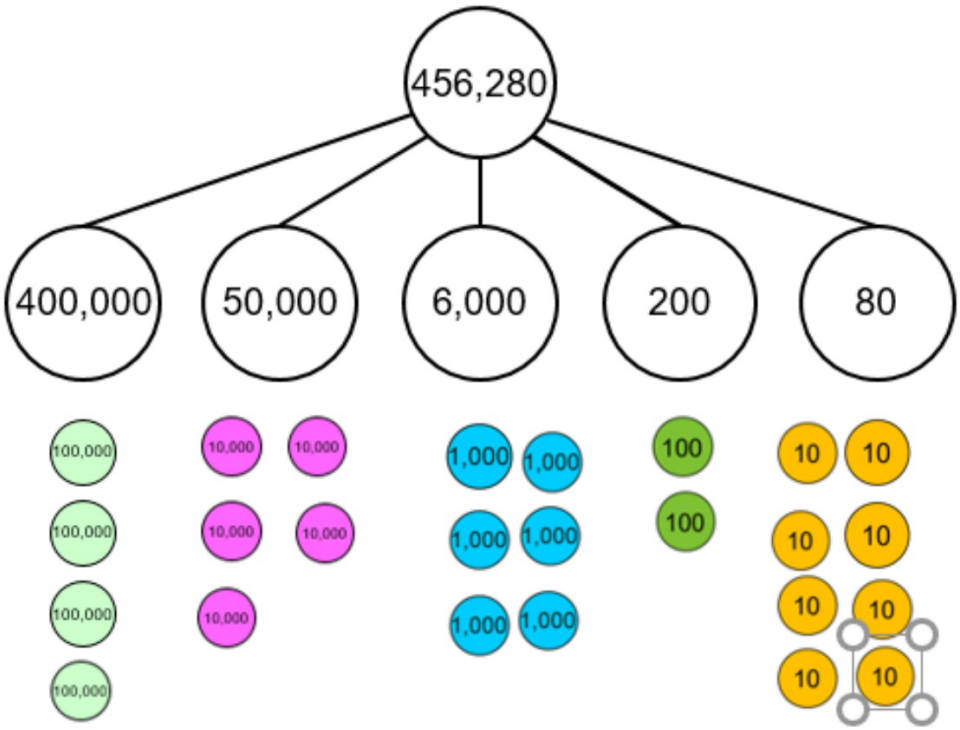
10 thousands are equivalent to 10,000.

10 ten thousands are equivalent to 100,000.

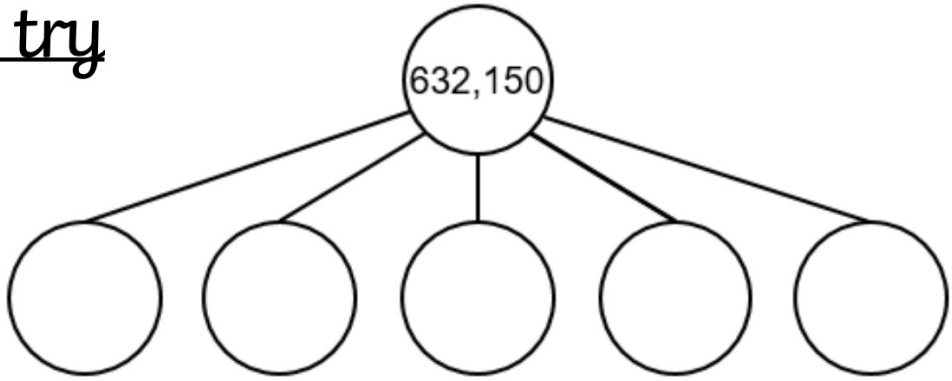
10 hundred thousands are equivalent to 1,000,000 or 1 million.

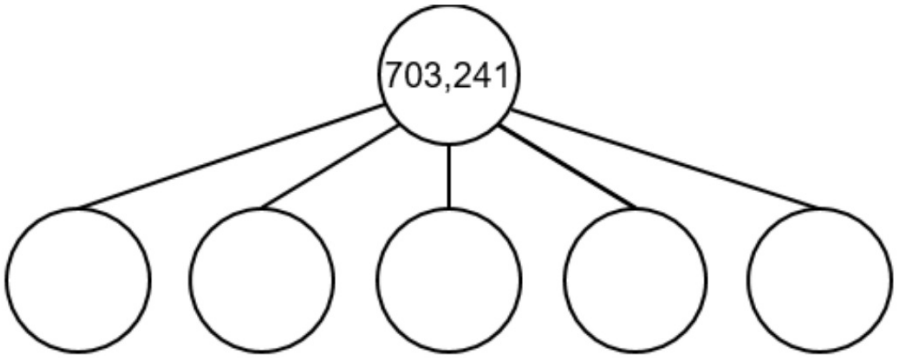
10 millions are equivalent to 10,000,000 or 10 million.


381,920
300,000
80,000
1,000
900
20
100,000
100,000
100,000
10,000
10,000
10,000
10,000
10,000
10,000
10,000
10,000
1,000
100
100
100
100
100
100
100
100
100
10
10


456,280
400,000
50,000
6,000
200
80
100,000
100,000
100,000
100,000
10,000
10,000
10,000
10,000
10,000
1,000
1,000
1,000
1,000
1,000
1,000
100
100
10
10
10
10
10
10
10
10

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?

fifty-one thousand, nine hundred and thirty-seven

51,937

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?

four hundred and fifty-one thousand, nine hundred and thirty-seven

451,937

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?

five million, four hundred and fifty-one thousand, nine hundred and thirty-seven

5,451,937

Where do the digits go?

Millions			Thousands			Ones		
100s	10s	1s	100s	10s	1s	100s	10s	1s

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 numebrs down using commas.

Which number is the largest?
How do you know?

Task

Millions			Thousands			Ones				Millions			Thousands			Ones		
100s	10s	1s	100s	10s	1s	100s	10s	1s		100s	10s	1s	100s	10s	1s	100s	10s	1s

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.

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

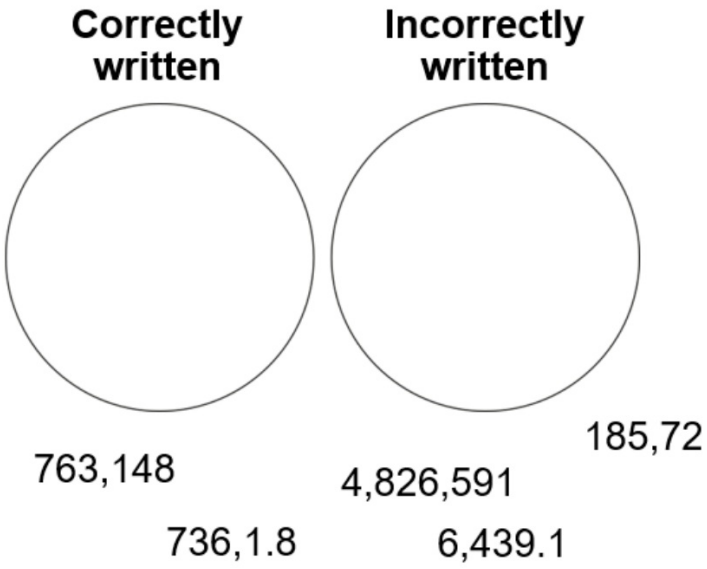
Can you swap a digit to make it larger?

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


Correctly written
Incorrectly written
763,148
736,1.8
4,826,591
6,439.1
185,72

30.4.21

Can you solve problems?

573,921

Read the number.
What is the value of each digit?

500,000 + 70,000 + 3,000 + 900 + 20 + 1

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. 3,870,291.46

Say the number.

three million, eight hundred and seventy thousand, 2 hundred and ninety-one point four six

What is the value of each digit?

3,000,000 + 800,000 + 70,000 + 200 + 90 + 1 + 0.4 + 0.06

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

Write the number: 2,332,572

Say the number

2 million, three hundred and thirty-two thousand, five hundred and seventy-two.

What is the value of each digit?

2,000,000 + 300,000 + 30,000 + 2,000 + 500 + 70 + 2

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: 4,154,604.6

Say the number:

4 million, one hundred and fifty-four thousand, six hundred and four point 6.

What is the value of each digit?

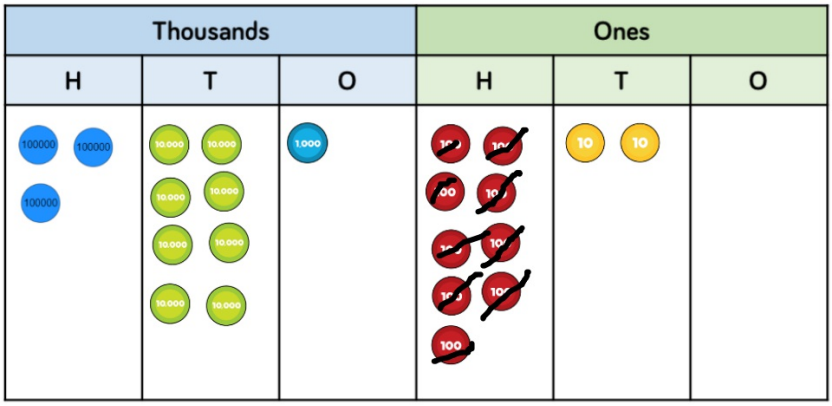
4,000,000 + 100,000 + 50,000 + 4,000 + 600 + 4 + 0.6

What do you notice in this calculation?

381,920 - 900 =


Thousands
Ones
H
T
O
H
T
O
100000
100000
100000
10.000
10.000
10.000
10.000
10.000
10.000
10.000
10.000
1.000
100
100
100
100
100
100
100
100
100
10
10

381,920



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

456,921 + 3,000 = 459,921

576,231.04 - 0.04 = 576,231

342,731 + 20,000 = 362,731

432,823 - 400,000 = 32,823

534,082 - 70 = 534,012

432,897 - 2,200 = 430,697

543,928 - 3,000 = 540,928

452,721 + 20,000 = 472,721

634,092.3 + 200.5 = 634,292.8

762,891 - 1,500 = 761,391