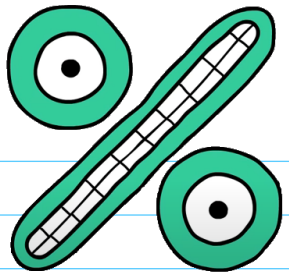
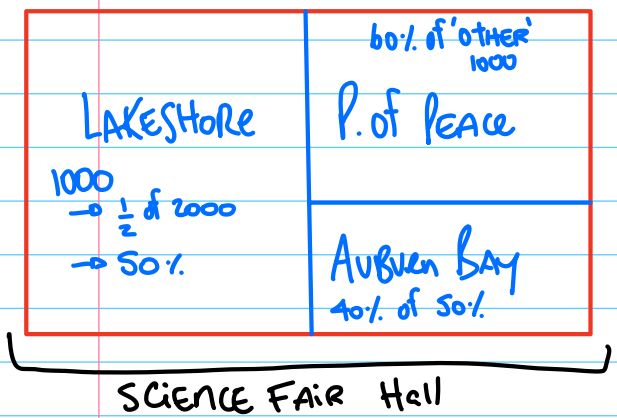
PERCENTS: INTRO



PERCENT = HUNDRED = "OF" = OF/OUT OF ONE HUNDRED

Three middle schools are having a science fair at the Olympic Oval. The amount of space given to each school is based on the number of students.
Lakeshore School has about 1000 students, Prince of Peace has about 600 students and Auburn Bay School has 400 students.
The rectangle below represents the auditorium. Divide the rectangle to show the amount of space each school should get based on the number of students. Label the sections LS, POP and ABS.



TOTAL STUDENTS = 2000

LAKESHORE = 1000 STUDENTS LS

P. of PEACE = 600 STUDENTS POP

AUBURN BAY = 400 STUDENTS ABS

What fraction of the space should each school get on the basis of the number of students?

If the schools share the cost of the science fair on the basis of number of students, what percent of the cost should each school pay?

AS A PERCENTAGE:

LAKESHORE: 50%
P. of PEACE: 30%
AUBURN BAY: 20%

AS A FRACTION:

LAKESHORE = $\frac{1000}{2000} = \frac{1}{2}$

P. of PEACE = $\frac{600}{2000} = \frac{6}{20} = \frac{3}{10}$

AUBURN BAY = $\frac{400}{2000} = \frac{4}{20} = \frac{1}{5}$

If the cost of the science fair is $300, how much should each school pay on the basis of number of students. Justify your answer.

if SCIENCE FAIR COST $300

LAKESHORE = $150 $\frac{1}{2}$ of 300 → $150

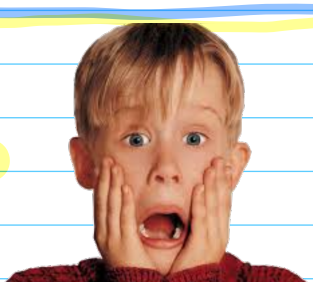
P. of PEACE = $90 $\frac{3}{10}$ of 300 / 30% of 300 → $\frac{30}{100} \overset{\times 3}{=} \frac{90}{300}$ = $90

AUBUEN BAY = $60 $\frac{1}{5}$ of 300 → $\frac{1}{5} = \frac{20}{100}$ so... $\frac{20}{100} \overset{\times 3}{=} \frac{60}{300}$ = $60

0.3 = 30% = $\frac{3}{10}$

DECIMALS, PERCENTS & FRACTIONS CAN BE USED TO REPRESENT / COMPARE THE SAME VALUE IN DIFF. WAYS.

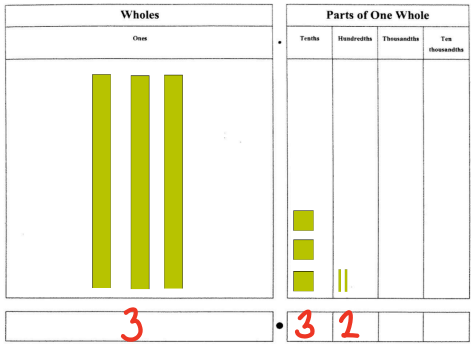
WHAT EVEN IS A PERCENT?

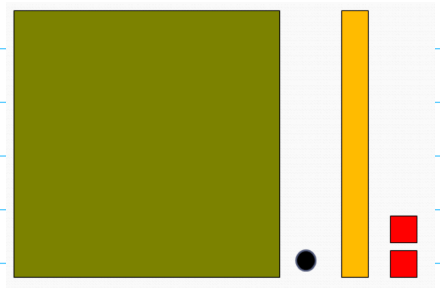


Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal	Tenths	Hundredths	Thousandths	Ten Thousandths	Hundred Thousandths
				2	3	7	.					
				6	5	3	.					
							.					
							.					
							.					
							.					

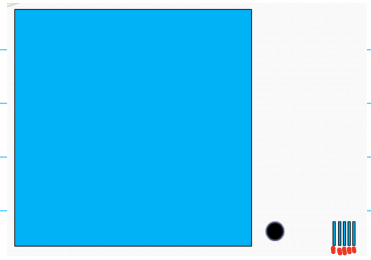
100's	10's	1's	Value
3	7	2	372 ?
	37	2	372 ?
	3	12	42 ?
1	6 ~~15~~ +1	~~15~~ 5	165 ?
	7	?14	84
2	?	17	237
6	?	3	653
?	9	19	709
4	12	34	?
	?	?	74
	?	?	136

THE Base 10 SYSTEM

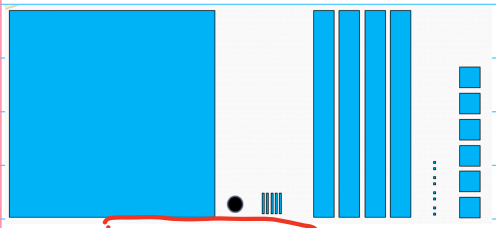




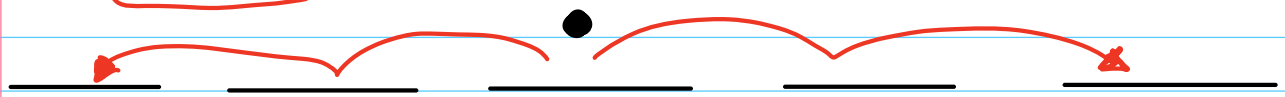
100.12



100.05



100.5496



MOVING DECIMAL RIGHT MEANS... 10x BIGGER

MOVING DECIMAL LEFT MEANS...

KING HENRY DIED DRINKING CHOCOLATE MILK

Mnemonic	King	Henry	Died	Base Unit	Drinking	Chocolate	Milk
Length: Abbreviation:	Kilometer km	Hectometer hm	Decameter dam	Meter m	Decimeter dm	Centimeter cm	Millimeter mm
Weight: Abbreviation:	Kilogram kg	Hectogram hg	Decagram dag	Gram g	Decigram dg	Centigram cg	Milligram mg
Volume: Abbreviation:	Kiloliter kL	Hectoliter hL	Decaliter daL	Liter L	Deciliter dL	Centiliter cL	Milliliter mL
How many are in 1 meter/gram/liter	.001	.01	.1	1	10	100	1000
How many meters/grams/liters are in this unit?	1000	100	10	1	.1	.01	.001
	⟸ BIGGER				SMALLER ⟹		

THE METRIC SYSTEM

- CONVERTING UNITS -

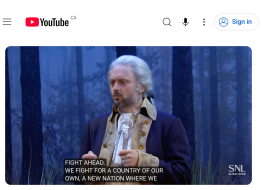
1 km = 1000 m

12.5 km = 12,500 m

10 cm = 0.1 m

1 cm = 0.01 m

768 cm = 7.68 m



GEORGE WASHINGTON'S DREAM

https://www.youtube.com/watch?v=JYqfVE-fykk

