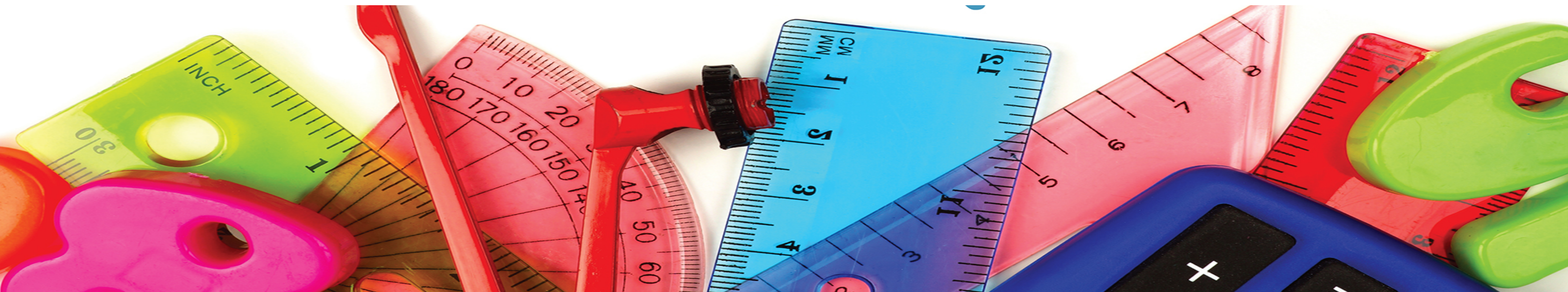
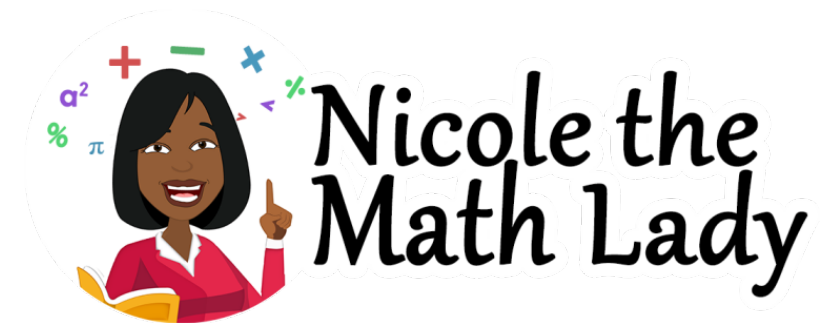


From Confusion to Clarity: Six Simple Strategies to Make Math Meaningful, Memorable and Filled with Joy





It



Make



Sticky!



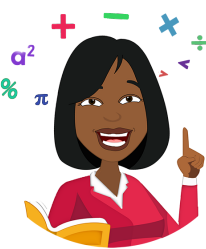
Manipulatives







$$1 - \frac{3}{8}$$





$$\frac{1}{8} - \frac{3}{8} = \frac{8}{8} - \frac{3}{8} = \frac{5}{8}$$



Word Problems

In the four containers, there are 17 crayons, 7 crayons, 11 crayons and 5 crayons. If the crayons were rearranged so that each container had the same number of crayons, how many crayons would be in each container?





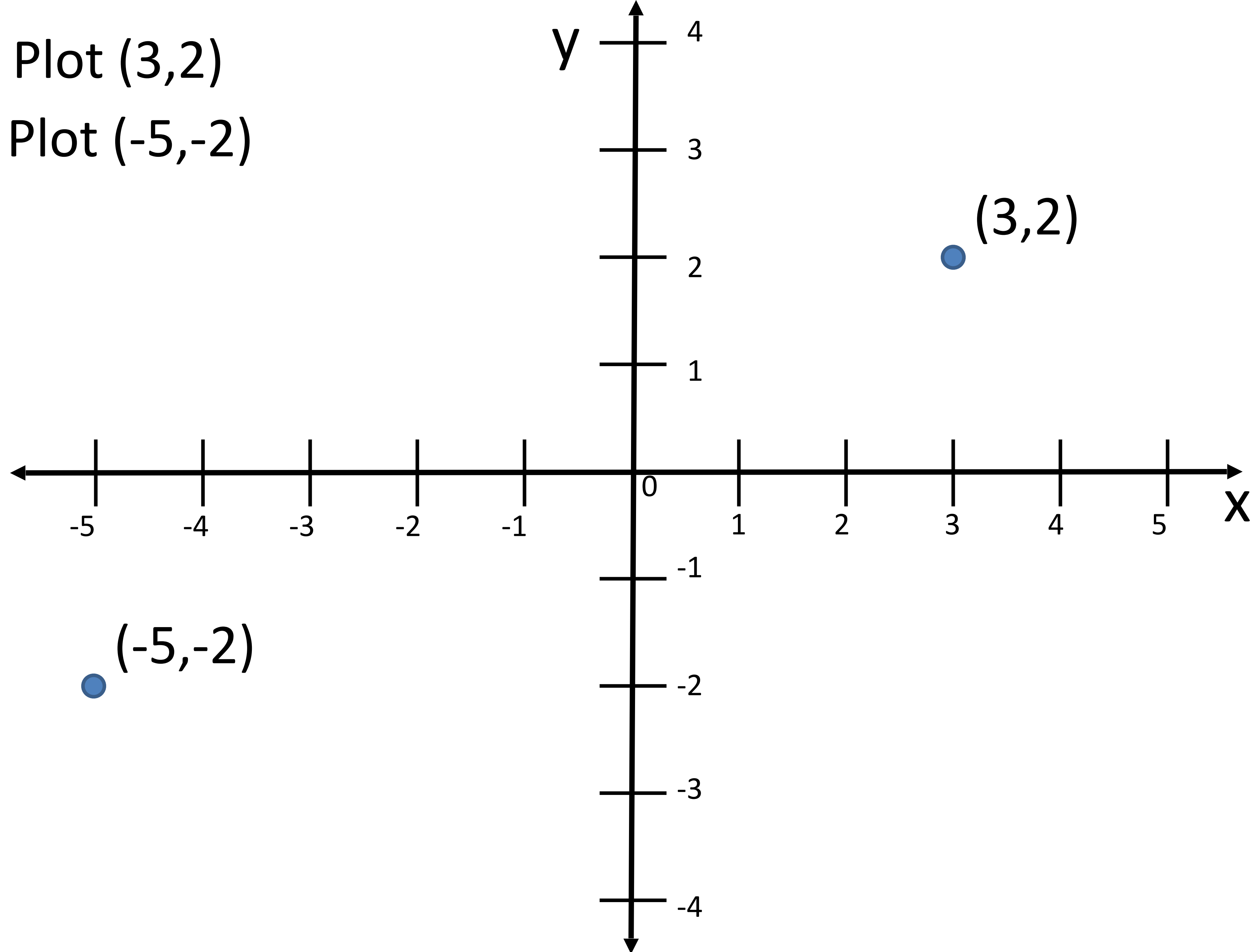
Manipulatives

Movement



Plot $(3,2)$

Plot $(-5,-2)$



Manipulatives

Movement

Activity



KITCHEN MEASUREMENTS CONVERSION CHART



DRY WEIGHTS

oz	tbsp	C	g	lb
½ oz	1 tbsp	⅙ C	15 g	-
1 oz	2 tbsp	⅓ C	28 g	-
2 oz	4 tbsp	⅓ C	57 g	-
3 oz	6 tbsp	⅓ C	85 g	-
4 oz	8 tbsp	½ C	115 g	¼ lb
8 oz	16 tbsp	1 C	227 g	½ lb
12 oz	24 tbsp	1½ C	340 g	¾ lb
16 oz	32 tbsp	2 C	455 g	1 lb

EGG TIMER

Soft
5 min.
Medium
7 min.
Hard
9 min.

OVEN TEMP

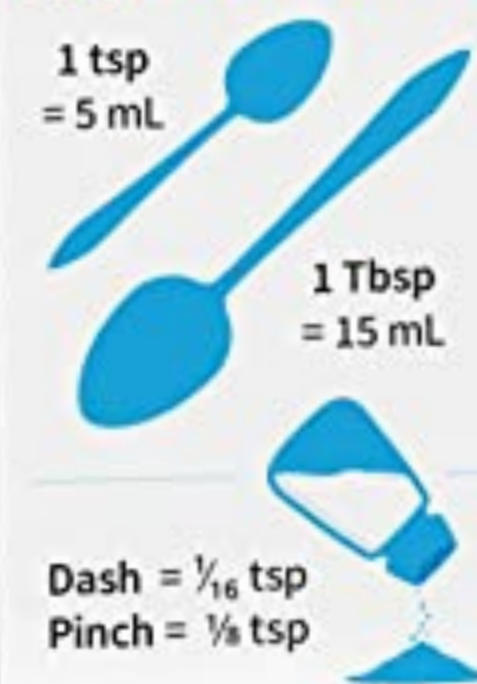


For fan-forced ovens,
reduce by
65°F | 20°C

LIQUID CONVERSIONS



LIQUID VOLUMES



oz	tsp	tbsp	mL	C	pt	qt
1 oz	6 tsp	2 tbsp	30 mL	⅓ C	-	-
2 oz	12 tsp	4 tbsp	60 mL	⅓ C	-	-
2 ⅓ oz	16 tsp	5 tbsp	80 mL	⅓ C	-	-
4 oz	24 tsp	8 tbsp	120 mL	⅓ C	-	-
5 ⅓ oz	32 tsp	11 tbsp	160 mL	⅓ C	-	-
6 oz	36 tsp	12 tbsp	177 mL	¾ C	-	-
8 oz	48 tsp	16 tbsp	240 mL	1 C	½ pt	¼ qt
16 oz	96 tsp	32 tbsp	470 mL	2 C	1 pt	½ qt
32 oz	192 tsp	64 tbsp	950 mL	4 C	2 pt	1 qt





cup



pint



quart



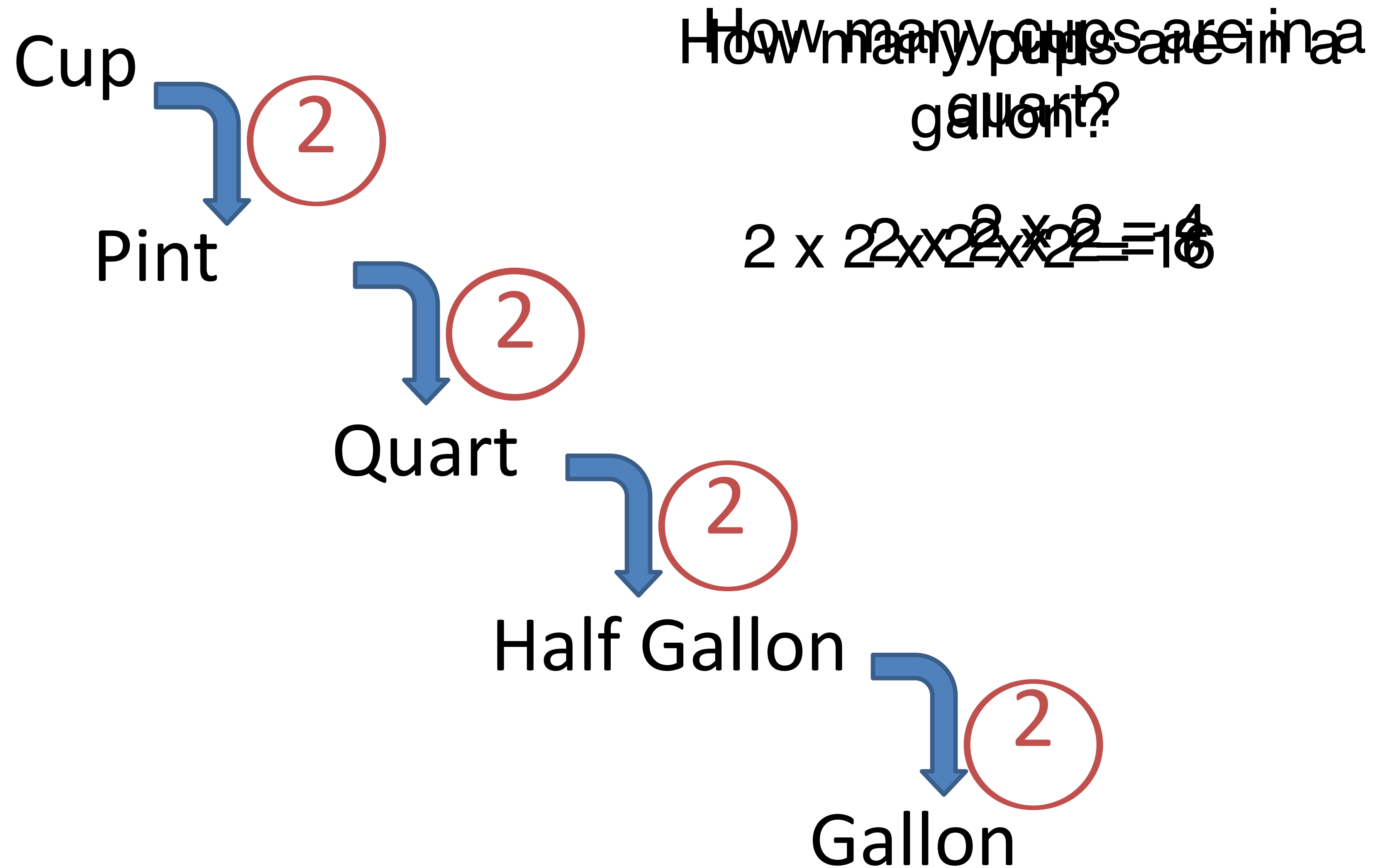
$\frac{1}{2}$ gallon



gallon



Liquid Measurement



Manipulatives

Movement

Activity

Music





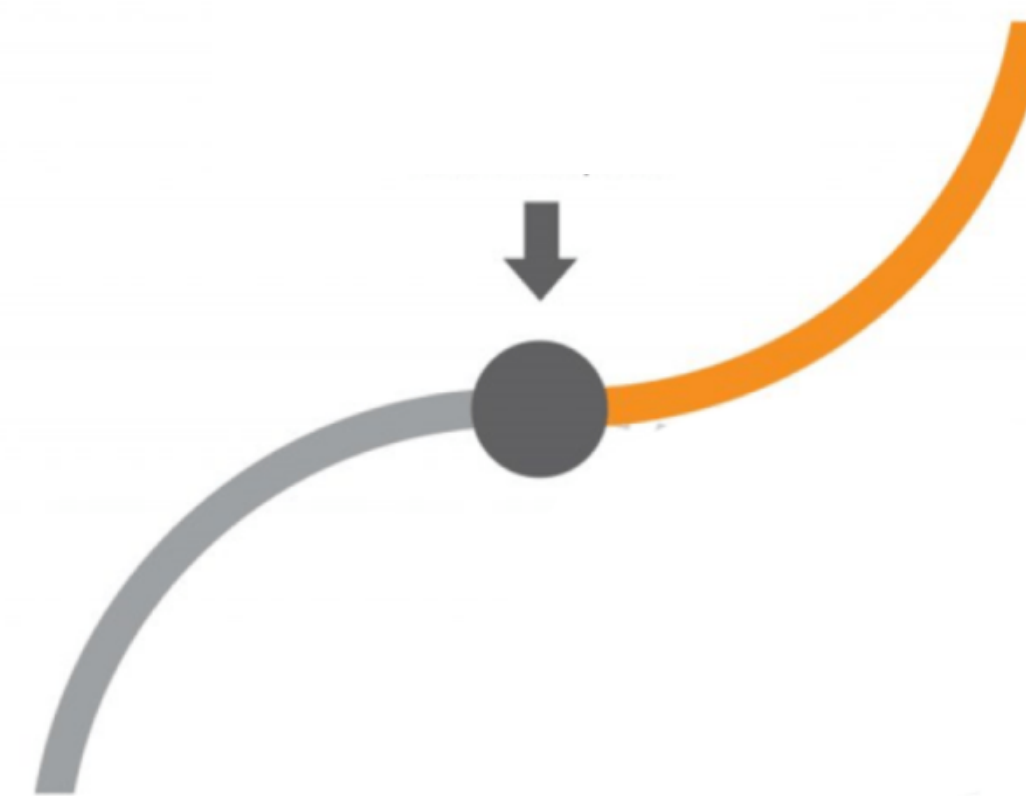
Rhythm



Rhyming



Repetition



Inflection



Dividing fractions
is as easy as
Pie





NICOLEism

What's the name of the game?

To get x by itself

How do you get X by itself?

Do the opposite

But this is America... you have to be fair!

What you do to one side, you have to do to the other



Let's Learn Algebra

$$2x + 4 = 10$$
$$\quad \quad \quad \cancel{-4} \quad \quad \quad -4$$

$$\frac{\cancel{2x}}{\cancel{2}} = \frac{6}{2}$$

$$x = 3$$



Let's Learn Algebra

$$\begin{array}{r} 5x - 6 = 19 \\ +6 \quad +6 \end{array}$$

$$\begin{array}{r} \frac{5x}{5} = \frac{25}{5} \end{array}$$

$$x = 5$$



Manipulatives

Movement

Activity

Music

**Build on
the Basics**



Geometry Formulas

Perimeter

Square	$P = 4s$
Rectangle	$P = 2(l + w)$

Circumference

Circle	$C = 2\pi r$
--------	--------------

Area

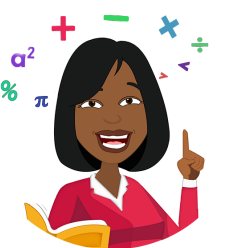
Square	$A = s^2$
Rectangle	$A = lw$
Triangle	$A = \frac{1}{2}bh$
Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$
Circle	$A = \pi r^2$

Surface Area

Cube	$SA = 6s^2$
Cylinder	$SA = 2\pi rh + 2\pi r^2$
Cone	$SA = \pi rl$
Sphere	$SA = 4\pi r^2$

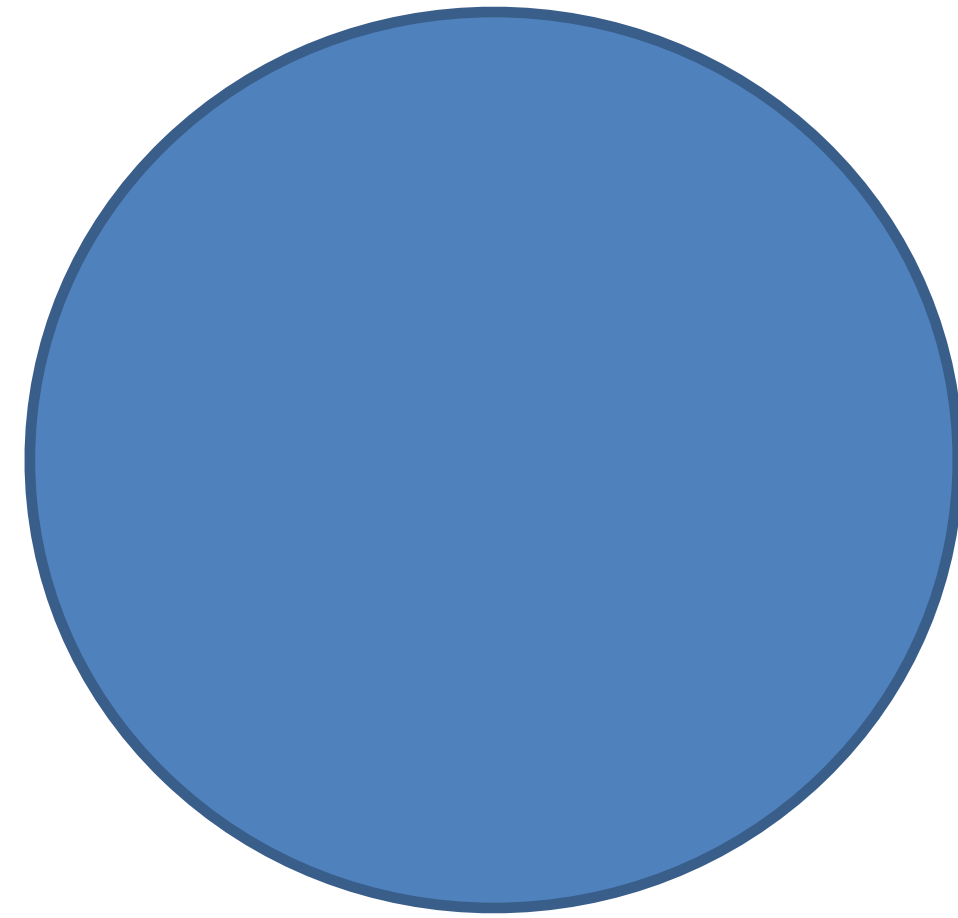
Volume

Cube	$V = s^3$
Cylinder	$V = \pi r^2 h$
Cone	$V = \frac{1}{3}\pi r^2 h$
Sphere	$V = \frac{4}{3}\pi r^3$

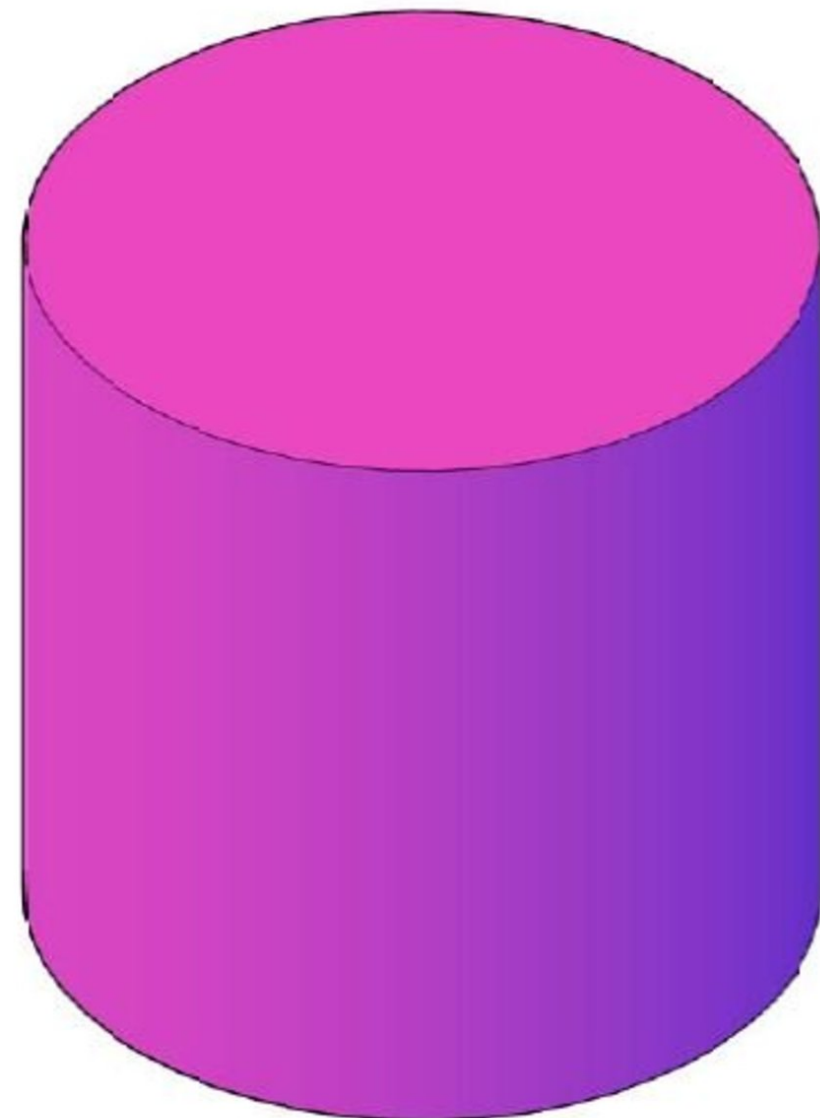




Finding Volume



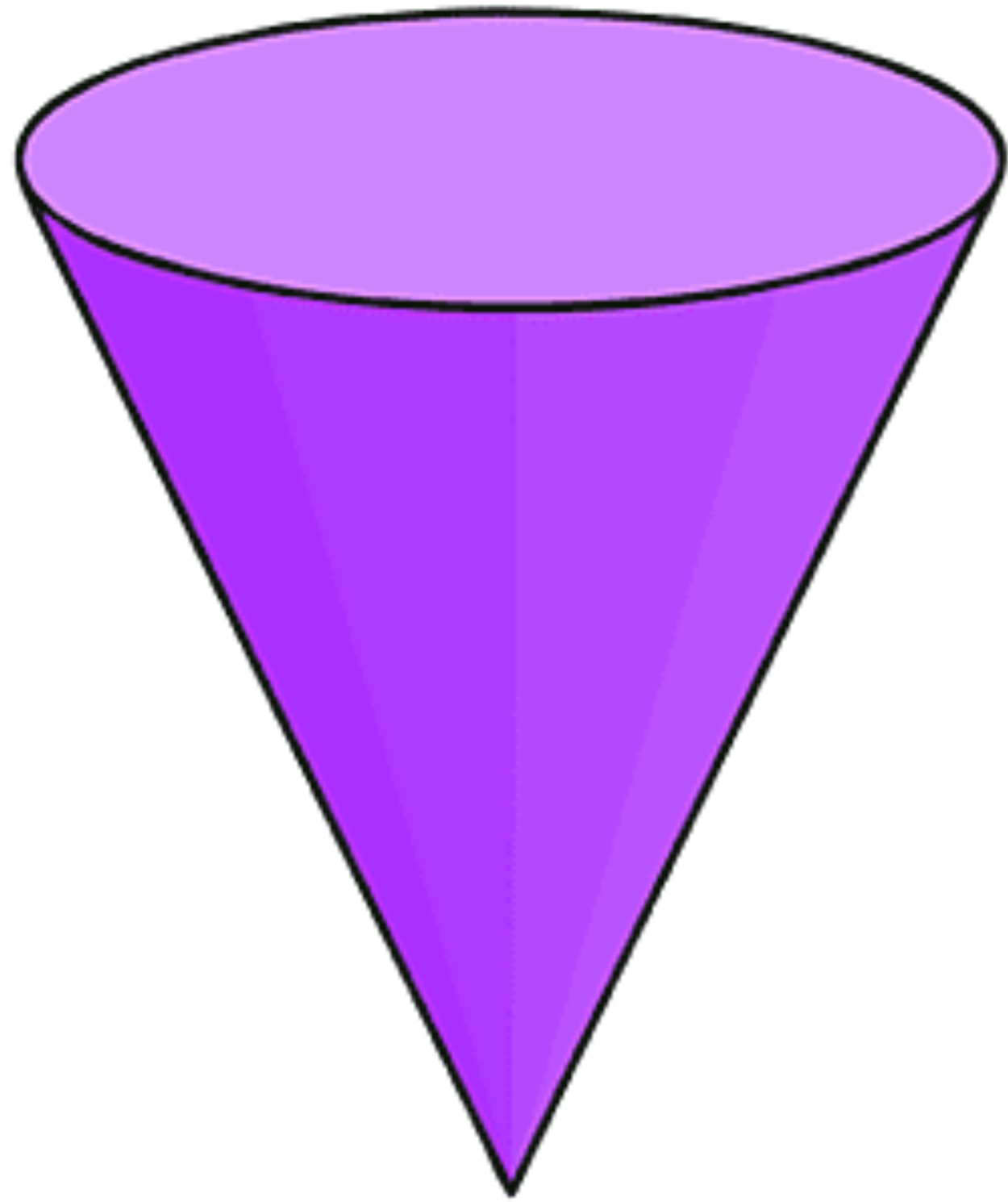
$$A = \pi r^2$$



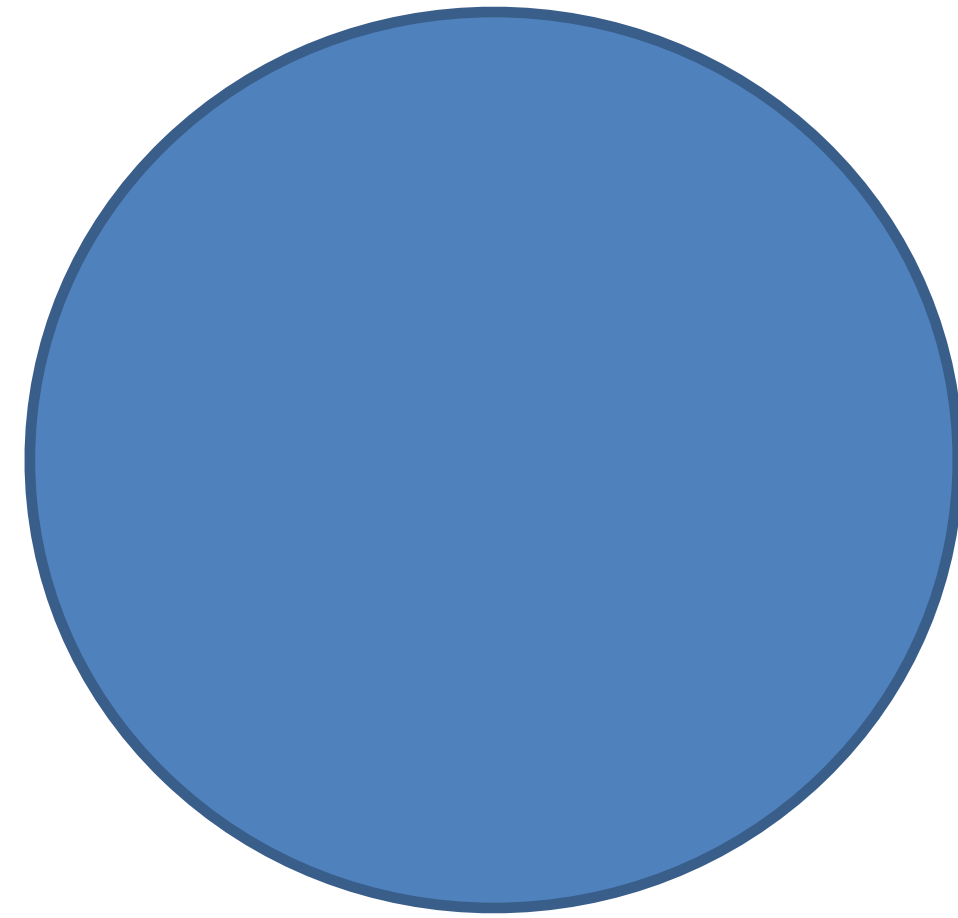
Volume = Area of the Base x height

$$V = \pi r^2 h$$

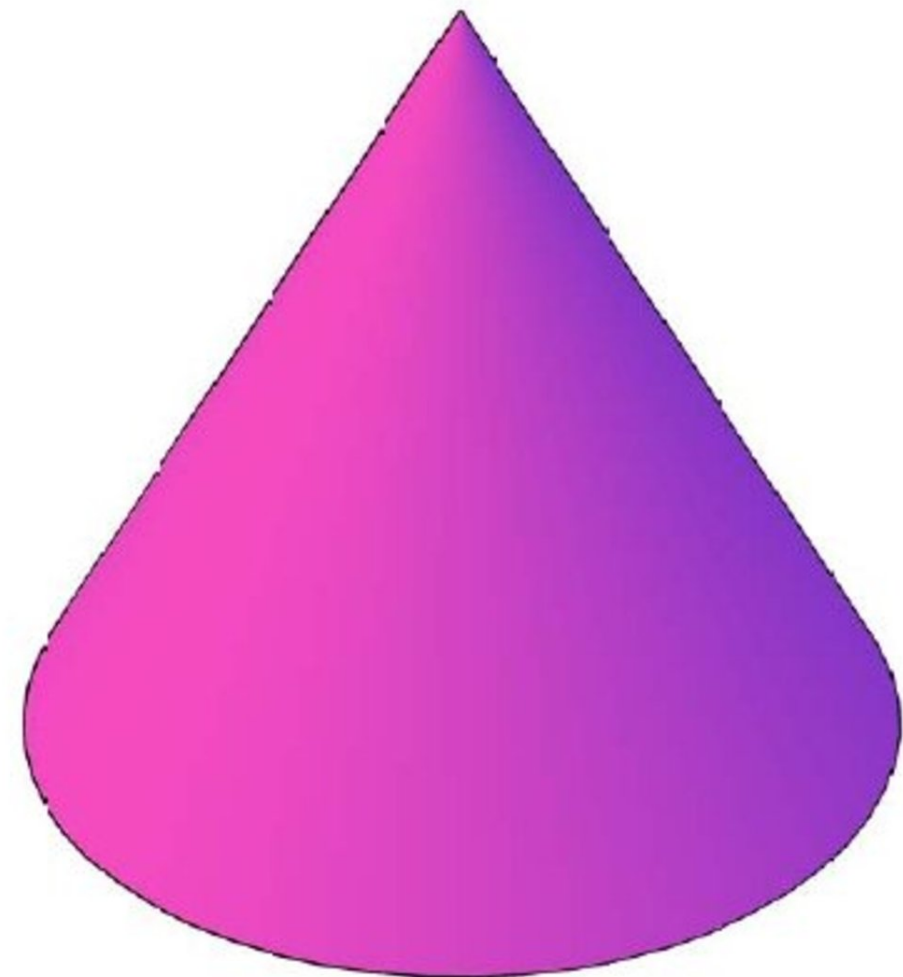




Finding Volume



$$A = \pi r^2$$



$$V = \frac{1}{3}\pi r^2 h$$



Manipulatives

Movement

Activity

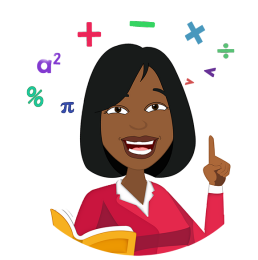
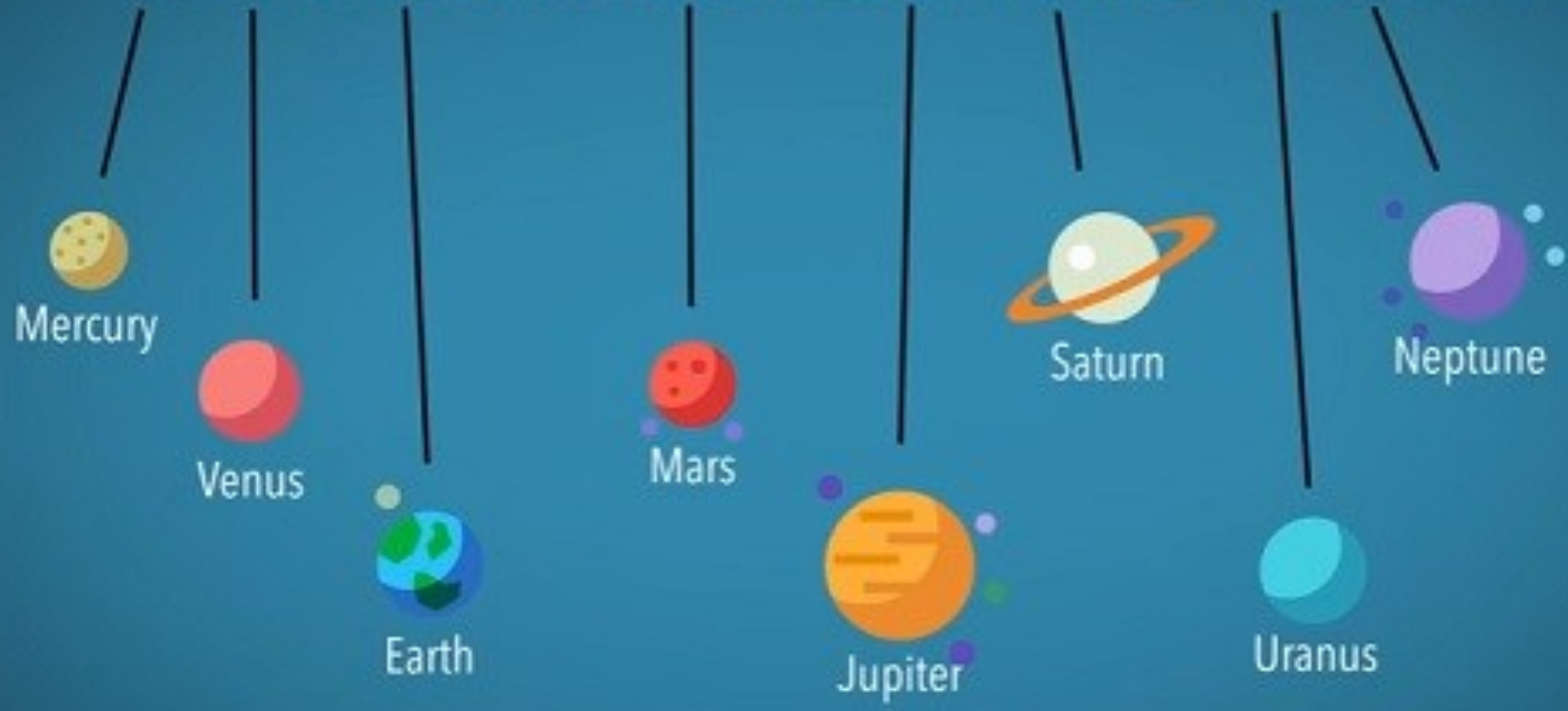
Music

**Build on
the Basics**

Mneumonics



MY VERY EDUCATED MOTHER JUST SERVED US NACHOS



Divide

Multiply

Subtract

Bring Down





Don't
Make
Slime
Blue



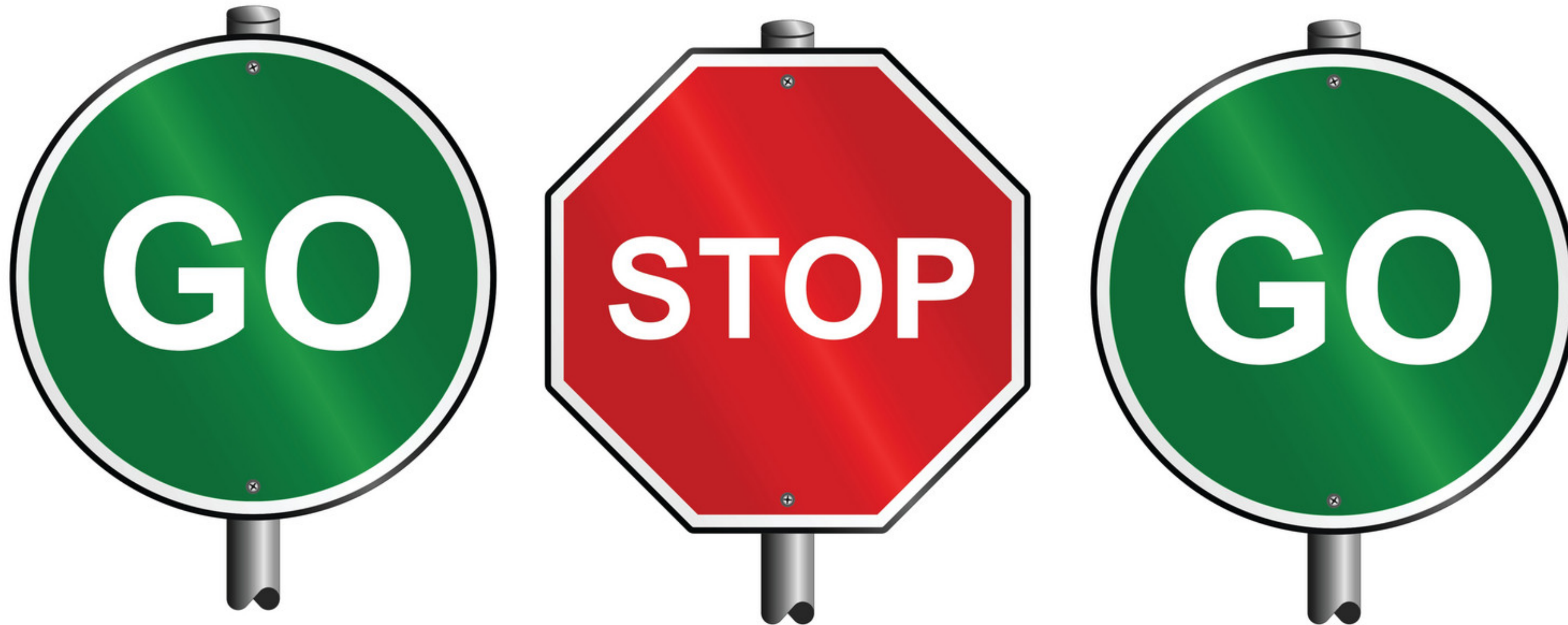
$$\begin{array}{r} 125 \\ 5 \overline{)625} \\ \underline{-5} \\ 12 \\ \underline{-10} \\ 25 \\ \underline{-25} \\ 0 \end{array}$$



3 Common Mistakes Parents Make



The Momentum Musher



The Explainerator



The Tower Tumbler



Do What You Do Best and
Outsource the Rest!





No Credit Card Required 7-Day Free Trial

- Saxon Math Videos and Grading
- Singapore Math Grading Videos and Online Grading (Videos Coming This Summer/Fall)
- Annual Membership start at \$59

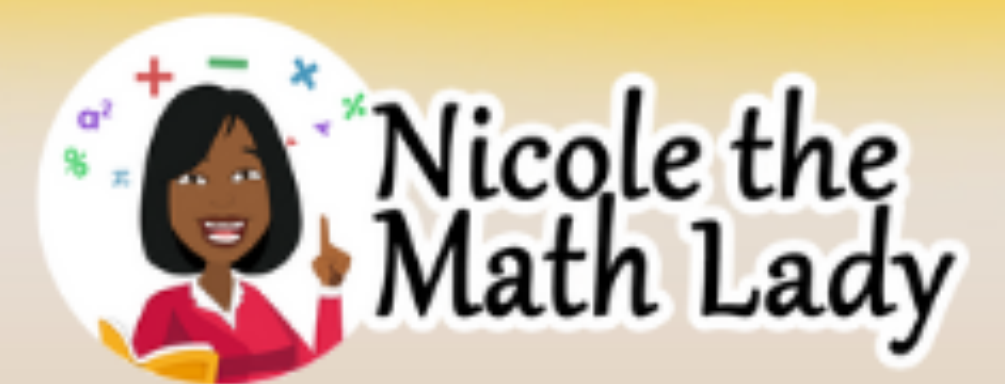




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June - August



- Learn Addition & Subtraction Math Facts in 60 days
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- \$21.99 for a single student





MASTERY BANK TOURNAMENT

Practice Problems by Topic





Mastery Bank Recommended Topics by Textbook

		Recommended skills to have if you will be entering...								
Topic	Sub Topic	Saxon 5/4 or Intermediate 5	Saxon 6/5 or Intermediate 5	Saxon 7/6 or Course 1	Saxon 8/7 or Course 2	Algebra 1/2 or Course 3	Algebra 1	Algebra 2	Geometry	Ad
Time	Reading Time on a Clock on the 5 or 10 minute mark	X	X	X	X	X	X	X	X	
	Reading Time on a Clock	X	X	X	X	X	X	X	X	
Numbers & Properties	Whole Numbers on a Number Line	X	X	X	X	X	X	X	X	
	Comparing Whole Numbers	X	X	X	X	X	X	X	X	
	Properties of Operations (Commutative, Distributive, Associative, Identity)				X	X	X	X	X	X
	Complete the Sequence		X	X	X	X	X	X	X	X
Place Value	The Hundreds Place	X	X	X	X	X	X	X	X	
	Numbers up to 999	X	X	X	X	X	X	X	X	
	Numbers up to the Hundred Thousands		X	X	X	X	X	X	X	
	Numbers up to the Hundred Millions		X	X	X	X	X	X	X	
Rounding	Rounding Numbers to the Nearest Ten	X	X	X	X	X	X	X	X	
	Rounding Numbers to the Nearest Hundred		X	X	X	X	X	X	X	
	Rounding Numbers to the Nearest Thousand		X	X	X	X	X	X	X	
	Rounding Numbers to the Nearest Million,Billion and Trillions			X	X	X	X	X	X	
	Estimating Addition and Subtraction Answers		X	X	X	X	X	X	X	
	Estimating Multiplication and Division Answers		X	X	X	X	X	X	X	
Addition	Addition with Two Digits - No Regrouping	X	X	X	X	X	X	X	X	
	Addition with Two Digits - Some Regrouping	X	X	X	X	X	X	X	X	
	Addition with Three Digits - No Regrouping	X	X	X	X	X	X	X	X	
	Addition with Three Digits - Some Regrouping	X	X	X	X	X	X	X	X	
	Addition with More Than Three Digits	X	X	X	X	X	X	X	X	
Subtraction	Subtraction with Two Digits - No Regrouping	X	X	X	X	X	X	X	X	
	Subtraction with Two Digits - Some Regrouping	X	X	X	X	X	X	X	X	
	Subtraction with Three Digits - No Regrouping	X	X	X	X	X	X	X	X	
	Subtraction with Three Digits - Some Regrouping	X	X	X	X	X	X	X	X	

