



A. Choose four action verbs that describe the action of your catapult!

retaliate	process	utilize	wander	suspend
repel	stiffen	usher	synthesize	summarize
project	scamper	trounce	systematize	summon
strap	scavenge	yield	tackle	parade
shield	snare	withdraw	target	parry

B. Marketing: Word Power! Choose a value for each action verb. You have value points emphasize strong word choice! No two action verbs can have the same value!

Verb	Synonym	Color	Value	Fraction

C. Represent your data in a fraction block. Use the color you chose to represent that particular word!

D. Data Breakdown! Find the statistics!

Mean	Mode	Range	Median	Outlier

E. Data Breakdown! Equivalent Fractions / Decimals / Percents

Word	Fraction	Factors	Simplified Fraction	Decimal	Percent
Total					

BUSINESS PLAN:

CREATE A PERSUASIVE ADVERTISEMENT FOR YOUR PRODUCT. USE THE FOUR DIFFERENT KINDS OF SENTENCES (DECLARATIVE, EXCLAMATORY, IMPERATIVE, INTERROGATIVE), INCLUDE FIGURATIVE LANGUAGE, 5 POWERFUL ADVERBS, AND 5 ADJECTIVES! INCLUDE A MECHANICAL DRAWING!



	Circle Pro	operties Key	SCALE					
Property	Color	Property	Color	Your circle may have a diameter of 20 inches.				
diameter =		chord		Scale				
radius =		tangent		1cm = 2 inches				
area		circumference		Set up your ratio and Proportion below:				
Find area (pi x radius squared)		Find circumference (pi x diameter)		<u>1 cm</u> = 2 in =				

USE PI TO DESIGN YOUR TARGET!

MAKE SURE TO FILL IN YOUR DIAMETER, RADIUS, AREA, AND CIRCUMFERENCE MEASUREMENTS IN THE TABLE ABOVE!

Build a base for your catapult! Scale: 9 ft = 1cm

Actual Dimensions: Length 108 feet Width = 45 ft Height = 72 ft Set up the ratios. Then, solve the proportion!

Length	Width	Height			
cm =cm	cm =cm	cm =cm			
ft = ft	ft = ft	ft = ft			

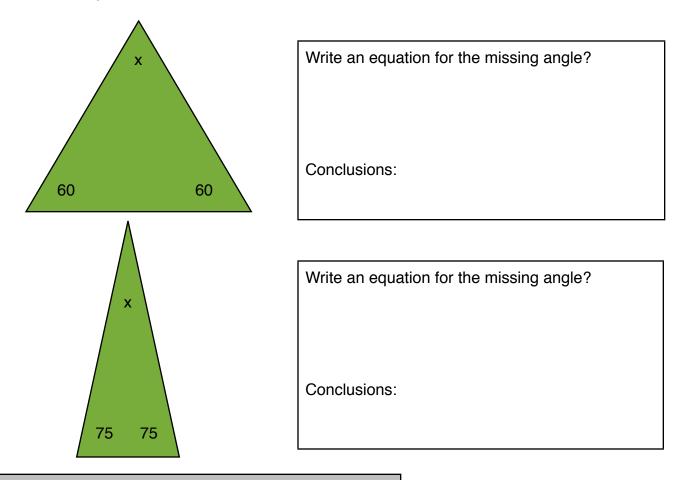
SCALE DRAWING: Construct the rectangular target. <u>Shade 5 centimeters squared!</u>

Fraction	Reduced Fraction						
Fraction =			())	= =		
Perimeter = total length in cm	Area= \	width X leng	gth in <i>cm</i> ²	Volume= width X length X height in cm^3			
Work and Label	Work and I	Label		Work and La	abel		

NAME: COMPANY: SLOGAN:

Analyze! I've Got Problems?!	Catapult Problems!
Josie sold 20 catapults to circuses. Luckily, she constructed 3 times the amount that she sold to circuses. Josie also sold 1/6 of a dozen of catapults to the military. Josie, then generously, donated 1/2 of the remaining catapults to a charity! How many catapults did she give to charity? Where did the most of the catapults go? Why do you think they went there?	
I've Got Problems?!	Catapult's Statistics!
A state of the art catapult was successfully able to hit 100 bull's eyes during the test phase. The Brewers were the celebrity testers! Ryan Braun hit 2/5 of the bull's eyes. Corey Hart added 1/10 while both Ricky Weeks and Amaris Ramirez hit 1/20 of them. Carlos hit the rest of them. How many did Carlos hit? Figure out the statistics for Brewer catupulters!	Mean:
Median:	
	Range:
Mode:	What can we learn about the data? Draw three conclusions!

Analyze the catapult projects! Examine the triangles and equations that represent the path of a project material. Figure out the missing angles and slopes! Draw conclusions based on your calculations!



FIND THE S	FIND THE SLOPE: Graphing Linear Equations!! <i>Y</i> = <i>Mx</i> + <i>B</i>					
Solve in slop y int	Solve in slop y intercept form: $4+y=2/3x+5$					
y intercept =						
Slope=	Rise =					
	Run=					
Points on the line: (x,y)	(), (), ()					
Graph the Line: ANALYZE THE SLOPE:						

PRODUCT'S NAME:

TEST YOUR CATAPULT! COLLECT AND ANALYZE DATA!

Draw a data table!	Draw a bar graph				
Dimensions =by	Dimensions =by				

Draw a line graph!	Draw a scatter plot
Dimensions =by	Dimensions =

	Analyze Data	Scientific Inquiry
Mean		Make a conclusion!
Range		
Median		
Mode		

NAME: COMPANY: SLOGAN:

PRODUCT'S NAME: