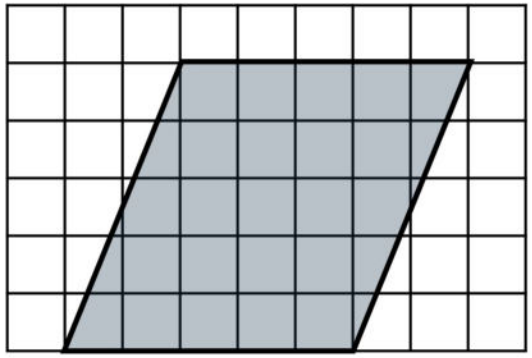
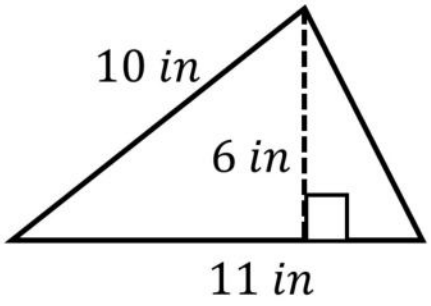
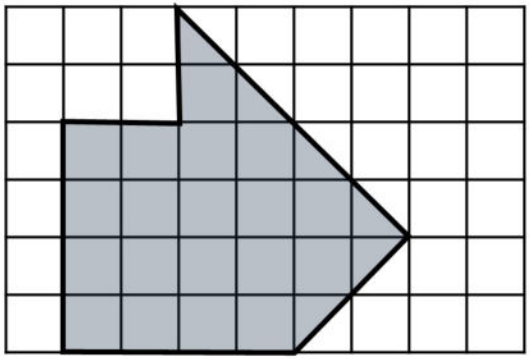
CATEGORY: Title Template

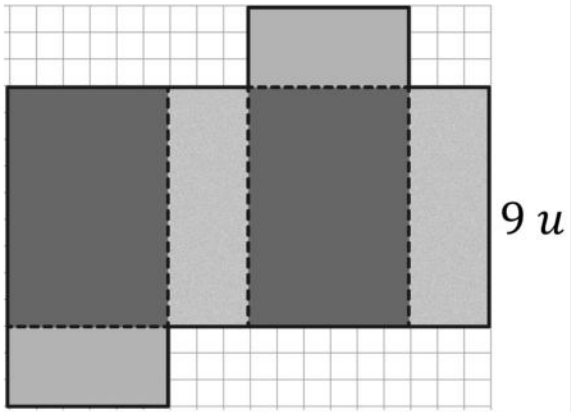
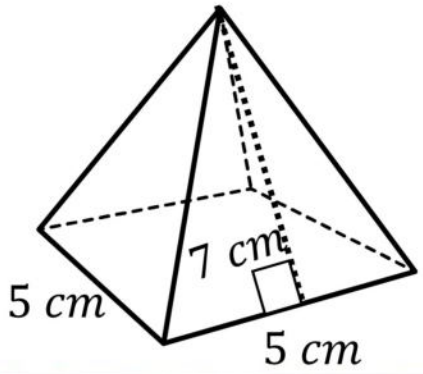
MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
Mild Descriptor	Medium Descriptor	Spicy Descriptor
Mild Example	Medium Example	Spicy Example

EXAMPLES

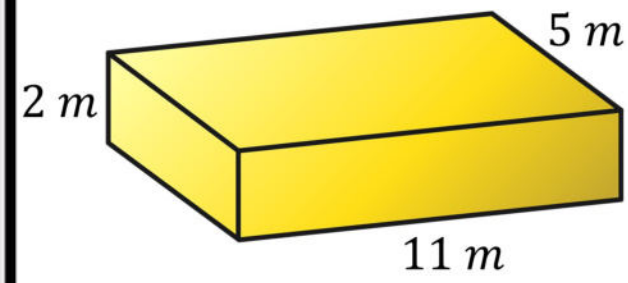
Unit 1A: Area

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can find the area of a parallelogram by reasoning and/or by using a formula.	I can find the area of a triangle by relating it to a parallelogram and/or by using a formula.	I can find the area of any polygon by decomposing and rearranging it, and by using knowledge of parallelograms and triangles.
EXAMPLES Find the area of the parallelogram. 	Find the area of the triangle. 	Find the area of the composite figure. 

Unit 1B: Surface Area

MILD 3 points	MEDIUM 4 points	SPICY 5 points
When given a net of a prism or pyramid, I can calculate its surface area.	I can draw a net for a prism or pyramid and use the net to calculate the surface area.	I can solve non-routine problems regarding surface area, including those comparing surface area and volume.
EXAMPLES Find the surface area of the prism that's net is shown below.  	What is the surface area of the polyhedron shown here? Draw a net to help explain your thinking.  	Two different rectangular prisms have a volume of 24 cubic inches and have whole number side lengths. What is the difference between the greatest possible surface area and the least possible surface area?

Unit 1C: Volume

MILD 3 points	**MEDIUM** 4 points	**SPICY** 5 points
I can calculate the volume of a rectangular prism given its dimensions.	Complete	during
What is the volume of the rectangular prism shown below? Label your answer. 	Unit	4

EXAMPLES

Unit 1D: Exploring Exponents

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
Student can write an expression that is in exponential form in expanded form and vice versa.	Student can evaluate numerical expressions involving whole number exponents.	Student can use exponential notation to write expressions for volume and surface area, including using appropriate units.
EXAMPLES a. Write 4^3 in expanded form. b. Write $8 \cdot 8$ in exponential form.	What is the value of $2 \cdot 5^3$?	A cube has side length s. a. Write an expression for the cube's surface area. b. Write an expression for the cube's volume.

Unit 2A: Ratio & Ratio Language

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can write or say a sentence that describes a ratio, accurately describing the ratio using words and numbers in the correct order.	I can draw a diagram to represent a ratio and label the diagram so that the meaning of the diagram is clear.	
EXAMPLES ✿✿✿✿✿♚♚♚ Fill in the blanks: The ratio of crowns to flowers is _____ to _____.	The ratio of hearts to diamonds is 3:2. Draw a diagram to represent this relationship.	

Unit 2B: Equivalent Ratios

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
If I have a ratio, I can create a new ratio that is equivalent to it.	If I have two ratios, I can determine whether they are equivalent to each other.	I can use models, such as double number lines or tables, to create equivalent ratios and to determine missing values in equivalent ratios.
EXAMPLES Create a ratio that is equivalent to 8:10	Select ALL the ratios that are equivalent to 3:2 5:4 12:8 2:3 1.5:1	Complete the table so that each recipe would taste the same. Then, draw a double number line to represent the information. Tablespoons of Peanut Butter: 2, 1, ? Tablespoons of Yogurt: 5, ?, 15

Unit 2C: Unit Rates

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
I can explain the meaning of the word "per" and use "per" when labeling a rate.	If I know the price of multiple things, I can find the price of one thing.	I can find both unit rates for a situation and interpret each meaning in context (possibly by finding the "1" rows on a table)
Jesse says, "I usually walk 10,000 steps per day." What does Jesse mean by this statement?	It costs $5.10 for 6 cans of soda. How much does it cost per can?	The scooter is traveling at a constant rate. How far can it go in one hour? How long will it take to travel one mile? Hours | Miles 3 | 60 | |

EXAMPLES

Unit 2D: Word Problems with Rate and Ratio Reasoning

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
I can solve word problems with whole number values that involve rate and ratio reasoning.	I can solve all kinds of problems about equivalent ratios.	I can solve non-routine problems with rate and ratio reasoning, including those that show a part-part-whole relationship.
EXAMPLES A paint color calls for 4 cups of blue paint and 5 cups of green paint. How many cups of blue paint should you use if you have 15 cups of green paint and want to create the same color?	3 ice cream sandwiches cost $8.25. How many ice cream sandwiches can you buy for $22.00?	The ratio of dogs to cats at an animal shelter is 5:3. If there are a total of 96 dogs and cats combined, how many cats are at the shelter?

Unit 3A: Unit Conversions

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
I can determine whether a unit of measurement is used to measure length, weight, or volume.	When I know a measurement in one unit, I can decide whether it takes more or less of a different unit to measure the same quantity.	I can accurately convert measurements from one unit to another, using double number lines, tables, or by thinking about "how much for 1."
EXAMPLES Classify each of these units as a measurement of length, weight, or volume: a) inch b) kilogram c) liter	A puppy weighs 6 pounds. Will the number kilograms he weighs be more than or less than 6?	Stacey is driving 55 miles per hour. How many kilometers per hour is she driving?

Unit 3B: Understanding & Comparing Rates

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
I understand that if two ratios have the same rate per 1, they are equivalent ratios.	When measurements are expressed in different units, I can decide who is traveling faster or which item is the better deal by comparing "how much for 1" of the same unit.	When I have a ratio, I can calculate its two unit rates and explain what each of them means in the situation.
EXAMPLES Which of the following are in equivalent ratios? A) $125 for 10 hours B) $30 for 3 hours C) $100 for 8 hours D)$37.50 for 3 hours	Which is a better deal? 3 cans of soda for $1.75 or 4 cans of soda for $2.25? Include the unit price for each in your explanation.	Johnny walks 5 laps in 40 minutes. What are the two unit rates for this situation? What does each unit rate mean?

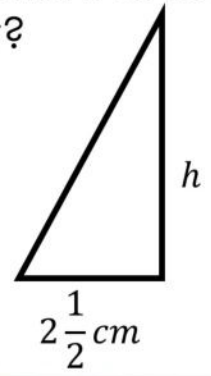
Unit 3C: Using Rates to Solve Problems

MILD 3 points 	**MEDIUM** 4 points 	**SPICY** 5 points 
I can choose which unit rate to use based on how I plan to solve the problem.	I can multiply or divide by the unit rate to calculate missing values in a table of equivalent ratios or a word problem.	I can solve more complicated problems that involve constant rates.
EXAMPLES Dusty drives 100 miles in 2 hours. If you want to determine how far he can drive in 3 hours, should you multiply 3 by 50 or by $\frac{1}{50}$?	Complete the table so that all data pairs have the same unit rate. Pints of ice cream | price 3 | $13.95 5 | | $153.45	Lydia and Abby live 4 miles apart. They leave their houses at noon and start walking toward each other. Lydia walks at a rate of 3.2 miles per hour and Abby walks at a rate of 2.8 miles per hour. What time will it be when Lydia and Abby meet up?

Unit 3D: Percentages

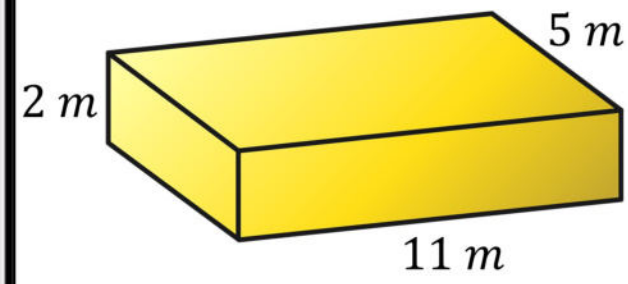
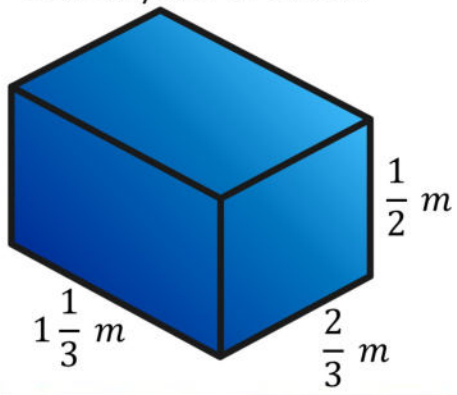
MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can explain the meaning of percents and relate a percentage to a specific example.	I can solve problems to find a missing part, whole, or percent by using tape diagrams, double number lines, and/or dividing and multiplying.	I can apply what I have learned about percentages to solve all kinds of problems.
EXAMPLES What coin is worth 5% of a dollar? If you get a 75% on a test, what does that mean?	What is 30% of 60? 70 is what percentage of 40? 60 is 80% of what number?	Sarah buys a pair of jeans that originally costs $43.50 but she has a coupon for 20% off. Cynthia buys a pair of jeans that originally costs $48.00 but she has a coupon for 25% off. Whose jeans end up being cheaper? By how much?

Unit 4A: Fraction Division

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can create a diagram and write an equation that represents division and multiplication questions.	I can divide numbers by any fraction.	I can use multiplication and division of fractions to solve real-world problems, including those involving area and volume.
EXAMPLES Draw a diagram & write a multiplication or division equation to represent this situation. Gabe had $8\frac{1}{2}$ cups of bread dough. He split the dough equally into 4 loaves. How much dough was in each loaf?	Solve. $2\frac{1}{3} \div \frac{2}{9}$	The area of a triangle is $5\frac{3}{4} cm^2$. Its base is $2\frac{1}{2} cm$. What is the measurement of its height? 

Unit 4B: Volume

EXAMPLES

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can calculate the volume of a rectangular prism given its dimensions.	I can calculate the volume of a rectangular prism that has fractional edge lengths.	I can solve non-routine problems involving volume.
What is the volume of the rectangular prism shown below? Label your answer.  	What is the volume of the rectangular prism shown below? Label your answer.  	A backyard swimming pool has a width of 9 feet, a length of 18 feet, and a maximum height of 4 feet. If a hose is filling the pool at the rate of 1 cubic foot per minute, how deep will the water in the pool be after 8 hours?

Unit 5A: Add & Subtract Decimals

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
I can tell whether writing or removing a zero in a decimal will change its value and use zeros appropriately in addition and subtraction problems.	I can solve problems with addition and subtraction of decimals, including those with many non-zero digits.	I can use addition and subtraction of decimals to solve real-world problems.
EXAMPLES Identify the equivalent expression to 7.85 + 9.4. Then, solve. a) 7.85 + 9.04 b)7.85 + 9.40	Solve. 4.18 - 3.056	To make a bubble solution, Betty mixes 0.95 liters of warm water with 0.105 liters of liquid dish soap. She then removes 0.2 liters of the mixture and places it in a container for Derek. How many liters of bubble mixture does Betty have left?

Unit 5B: Multiply Decimals

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
I can use place value and/or fractions to reason about multiplication of decimals.	I know how to use a product of whole numbers to find a product of decimals.	I can multiply decimals to solve real-world problems.
EXAMPLES Find the product. $18.5(0.1)$	Find the product. $3.8 \cdot 4.9$	Nana is making a rectangular blanket that is 1.25 meters by 1.5 meters. The fabric costs $7 per square meter. What will the fabric for the blanket cost?

Unit 5C: Divide Decimals

MILD 3 points 	**MEDIUM** 4 points 	**SPICY** 5 points 
I can use long division to find the quotient of two whole numbers.	I can divide a decimal by a whole number.	I can find the quotient of two decimals.
EXAMPLES Solve. $2844 \div 9$	Solve. $184.6 \div 13$	Solve. $72.66 \div 8.4$

Unit 6A: Solving Equations

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can use substitution to determine whether a given number makes an equation true.	I can solve one-step equations that have whole numbers, decimals, and fractions.	I can write a one-step equation to represent a situation using variables. I can solve my equation and interpret the solution.
EXAMPLES Which of the following makes the equation $4n = 48$ true? $a)\ n = 8$ $b)\ n = 44$ $c)\ n = 12$ $d)\ n = 192$	Solve the following equation. $6.7 = 3.86 + x$	A biscuit recipe calls for $\frac{3}{4}$ cup of flour per batch. A) If Misty bakes n batches, how much flour will she use? B) Write an equation to represent the number of batches, n, Misty can bake if she has a total of 6 cups of flour. C) Solve your equation for n. What does your answer tell you about this situation?

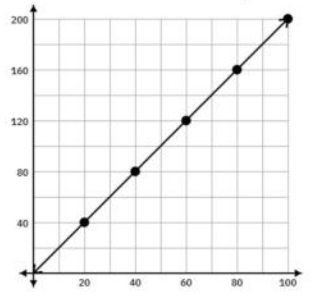
Unit 6B: Equivalent Expressions

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can explain what it means for two expressions to be equivalent.	I can use what I know about operations to decide whether two expressions are equivalent.	I can use the mathematical properties to write equivalent expressions with variables.
EXAMPLES Fill in the blank: If two expressions are equivalent, they are _____ equal for the same value of the variable.	Which of the following pairs of expressions are equivalent? Choose ALL that apply. $x + x + x$ *and* $3x$ $7 + n$ *and* $n + 7$ $6 - y$ *and* $y - 6$ $a \div 3$ *and* $\frac{1}{3}a$	Use the distributive property to write an equivalent expression to $4(3x - 5)$

Unit 6C: Evaluating Expressions with Exponents

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
I can write and evaluate numerical expressions involving whole number exponents.	I can write, read, and evaluate expressions in which letters stand for numbers.	I can use the order of operations to evaluate expressions at specific values of their variables.
EXAMPLES What is the value of 3^4?	If $n = 4$, which of the following expressions is not equivalent to the other 3? n^2 2^n $4n$ 4^n	If $a = 5$ and $b = 2$, what is the value of the following expression? $6a - b^3$

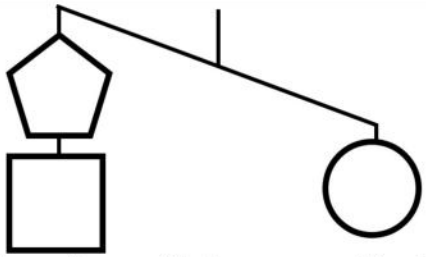
Unit 6D: Representing Relationships between Quantities

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can create a table, graph, or equation that shows the relationship between two quantities.	I can create a table, graph, and equation to show the relationship between two quantities.	I can use tables, graphs, and equations to show the relationship between two quantities and to compare two different sets of data.
EXAMPLES A recipe calls for 3 bananas for every 2 mangos. Create a table, graph, or equation that shows the relationship using mangos as the independent variable.	Paige has 48 pieces of candy and she wants to split the candy equally between n friends. Create a table, graph, and equation to show the relationship between the number of friends Paige gives the candy to and the number of pieces each friend gets.	Jerry (table), Lydia (graph), and Evie (equation) are walking in a walk-a-thon. Rank the three in order from fastest walker to slowest walker. Explain. Time (seconds) / Distance (meters) 10 / 30 20 / 60 30 / 90  $d = 2.5s$

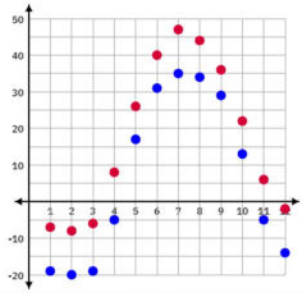
Unit 7A: Negative Numbers, Opposites, & Absolute Value

MILD 3 points 	**MEDIUM** 4 points 	**SPICY** 5 points 
I can explain what 0, positive numbers, and negative numbers mean in a context such as elevation or temperature.	Given a rational number, I can identify its opposite and its absolute value.	I can locate and order positive and negative rational numbers on a number line, including a set that contains opposites and absolute value.
EXAMPLES Mt. Everest has an elevation of 8,848 meters. The Mariana Trench has an elevation of -11,033 meters. What do each of these numbers mean about their elevations?	*What is the opposite of 2.5? *What is the absolute value of 2.5? *What is the opposite of -17? *What is the absolute value of -17?	Place the following numbers on a number line. Order them from least to greatest. $-1.7, -3, \frac{3}{4}, \left\lvert\frac{2}{5}\right\rvert, -2, \lvert-1\rvert, -\frac{5}{8}$

Unit 7B: Inequalities

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can determine if a particular number is a solution to an inequality.	I can graph the solutions to an inequality on a number line.	I can write an inequality (that may have more than one variable) to represent a situation or a graph. I can explain what the solution to an inequality means in a situation.
EXAMPLES Which of the following numbers are solutions to the inequality $x < -2$? Select ALL that apply. -3 -2.2 1 2 -2 -50 -1	Graph the solutions to $x > -3$ on a number line.	 a) Write an inequality to represent the hanger diagram shown here. Use c to represent the weight of a circle, p to represent the weight of a pentagon, and s to represent the weight of a square. b) If the weight of the pentagon is 10 ounces, can you write another inequality you know is true?

Unit 7C: The Coordinate Plane

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can plot points in a coordinate plane that has four quadrants.	I can draw polygons in a coordinate plane given the vertices and find horizontal and vertical distances between points on the coordinate plane.	I can use points on a coordinate plane to represent situations and solve problems.
EXAMPLES Plot (-2, 4), (3,5), (-1, -4) and (2, -1) in the coordinate plane.	Draw a rectangle in the coordinate plane with the vertices (-2, 5), (3,5), (3,-1) and (-2,-1). What is the perimeter of the rectangle?	The coordinate plane shows the average high and low monthly temperatures in Barrow, Alaska. a) Write an inequality to describe the temperatures over the 8-day period. b) What is the difference between the highest high and the lowest low? 

Unit 7D: Factors

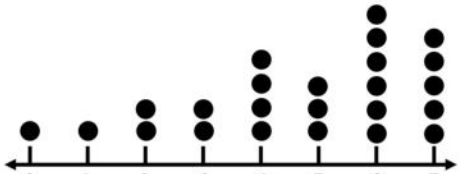
MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
Given a number less than or equal to 100, I can list all of its factors.	Given two numbers less than or equal to 100, I can find the greatest common factor.	I can solve non-routine problems using what I know about common factors.
EXAMPLES List the factors of 30.	What is the greatest common factor of 24 and 40?	Derek has 30 lollipops, 42 chocolates, and 18 stickers. He wants to use all the items to create identical treat bags. What is the maximum number of treat bags he can create?

Unit 7E: Multiples

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
Given a number less than or equal to 12, I can list at least 5 of its multiples.	Given two numbers less than or equal to 12, I can find the least common multiple.	I can solve non-routine problems using what I know about common multiples.
List the first 5 multiples of 7.	What is the least common multiple of 10 and 12?	Emmalia plays clarinet every 2 days, swims every 3 days, and has an art lesson every 5 days. On August 1, Emmalia played clarinet, swam, and had an art lesson. When is the next day that she will do all three things?

EXAMPLES

Unit 8A: Statistical Questions & Data Representations

MILD 3 points	MEDIUM 4 points	SPICY 5 points
I can recognize a statistical question as one that anticipates variability in the data.	I can use tables, dot plots, bar graphs, and histograms to represent distributions of data, choosing a display appropriate to the data.	I can use a dot plot or histogram to get information about the distribution of data and to determine a typical value for the data.
EXAMPLES Classify each question as statistical or not-statistical. 1. What is the most common favorite color for 6th graders? 2. How many pets does Madison have? 3. What percentage of football players can bench press their body weight?	The students in Homeroom 314 were asked their favorite color. Here are their responses. purple, black, blue, blue yellow, red, black, blue white, blue, green, purple blue, black, purple, red Choose and create a visual display to organize this data.	 Hours Spent Watching Television During a Week How many hours per week would you say that these students typically spend watching TV? What percentage of students watch fewer than 3 hours per week?

Unit 8B: Mean and MAD

MILD 3 points 	**MEDIUM** 4 points 	**SPICY** 5 points 
I can find the mean of a numerical data set.	I can find the MAD for a set of data.	I can use means and MADs to compare groups.
EXAMPLES Here are the heights of the 5 starters on a basketball team, in inches. 68, 71, 75, 77, 79 Find the mean height.	Here are the heights of the 5 starters on a basketball team, in inches. 68, 71, 75, 77, 79 Find the MAD.	Bob and Lucy each take 6 science quizzes. Here are their scores. Bob: 7, 3, 10, 8, 5 Lucy: 6, 7, 7, 5, 8 Use the mean and the MAD to determine who did better on average and who was more consistent.

Unit 8C: Median and IQR

MILD 3 points 	MEDIUM 4 points 	SPICY 5 points 
I can find the median of a numerical data set.	I can use the five-number summary to create a box plot.	I can use medians and IQRs to compare groups.
EXAMPLES 10 members of a track and field team each do one standing long jump. Bryan records their distances, in centimeters below. 30, 108, 45, 70, 88, 100, 59, 115, 66, 72 What is the median of this data set?	10 members of a track and field team each do one standing long jump. Bryan records their distances, in centimeters below. 30, 108, 45, 70, 88, 100, 59, 115, 66, 72 Use the 5 number summary and create a box plot for this data.	8 members of the soccer team and 8 members of the football team were asked the question "How many books have you read this year?" Football team: 2, 5, 3, 0, 11, 20, 2, 4 Soccer team: 1, 4, 12, 18, 15, 2, 2, 8 Create a box plot for each group. How are they similar? How are they different?

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EXAMPLES

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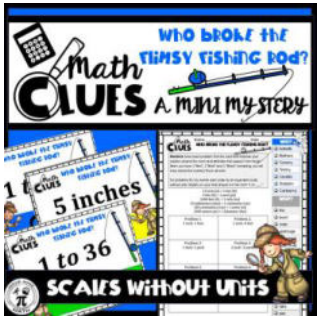

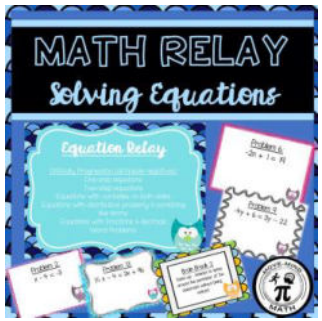

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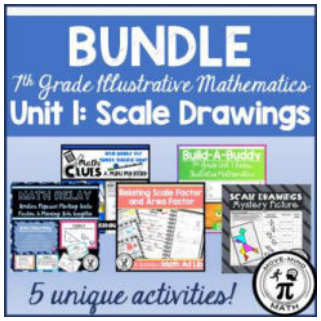
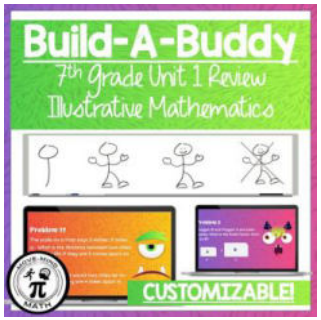
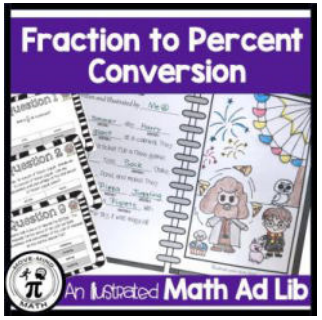




Build-A-Buddy

Math Ad Libs



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