

Math E-Learning for Days 16-29

Choice one activity for each day.

NAME: _____

Math Menu

Make Something

Find a recipe. Write down the ingredients. Then think about if you had to double the recipe. Write down the new amount of each ingredient you will need if your recipe is doubled. (Hint: Multiply by 2)
Then take your original recipe and think about how much of each ingredient you would need if you decided you only wanted to make half as much as what the recipe called for. Write down the new amounts of each ingredient. (Hint: Divide by 2 or multiply by $\frac{1}{2}$)

Find a menu in your house or online. Write down an order that includes: an entrée (meal) for every person in your family, a drink for everybody, and a dessert for each person. **Figure out the cost. Then tell me what kind of bills you could use to pay for the meal. If you paid with those bills how much money would you receive back? How much of a tip should you leave for the waiter/waitress? (Hint: a tip should be around 15 – 20% of what the meal cost)**

Design a Poster

Make a poster (or piece of paper) teaching the following skills:

*Place value of decimals
Rounding Decimals
Comparing Decimals
Ordering Decimals*

Use a Menu

More options:

Count the silverware in your house. How can you describe it using fractions (ex. $\frac{2}{3}$ of the silverware are spoons). Tell me the fraction of knives, spoons, forks.

Go outside and move around. Dribble a basketball for a minute? How many bounces did you get? Calculate how many bounces you would have in 30 minutes, 1 hour, and 1 day. Time yourself running around the yard; measure the distance using footsteps (say 1 footstep = 1 foot). How long would it take you to run 500 yards; 1 mile?

How many different ways is it possible to score 30 points in a NFL football game? Touchdown = 6 pts., Extra pt. = 1 pt. field, Goal = 3 pts. Safety = 1 pt. Express the different ways as an expression and solve them using order of operations (Parentheses, Exponents, Multiply/Divide, Add/Subtract). Ex: $(3 \times 6) + (3 \times 3) + (3 \times 1) = 30$ to represent 3 touchdowns, 3 field goals, and 3 extra pts.

How many different outfits can you make using four of your favorite shirts, 3 of your favorite pants, and 2 of your favorite pairs of shoes?

Make a list of how multiplying and dividing fractions are used in the real world. Show examples.

Make a presentation on how to graph ordered pairs on a coordinate plane.

Create a List

Make a list of 15 expressions that have a value of 23. Prove they all have a value of 23. (Meaning show your thinking)

Measure

Find a big object to measure in your house. Measure it in feet. Then figure out how many yards it would be. (Hint: there are 3 feet in a yard). Explain how you can figure out how many yards the object will be without measuring it. Will this work every time?

Scavenger HUNT

Look around your house (inside or outside). Make a list of all the objects that are geometric solids (rectangular prisms, cubes, cones, triangular prisms, cylinders, spheres).

Find the volume of one of the objects that are in the shape of a rectangular prism. Remember:

Volume = Length x Width x Height
(Hint you will need to measure the object).

Make a word problem involving subtracting fractions with unlike denominators. Explain HOW TO SOLVE THE

PROBLEM. Record a video of yourself doing this. Make sure you explain step by step and provide visuals to help teach others. You may send the video to isemingerb@newton.k12.in.us

Teach the Class

Mean, Median, Mode, and Range

Create a data set by selecting 10 cards from a deck of cards. Find the **mean, median, mode,** and **range** for the data set.

Do this 5 times.

If you don't have a deck of cards, have a parent randomly give you 10 numbers.