FAMILY MATH NEWSLETTER: JUNIOR EDITION
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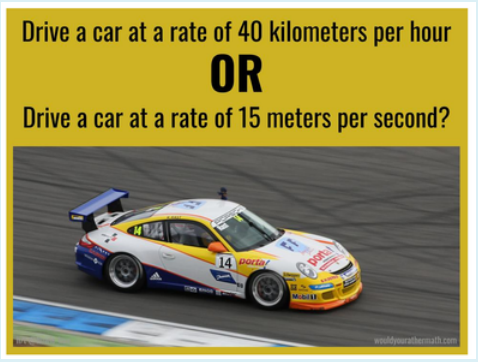
Game: Multipliying Fractions


Materials: dominoes and a deck of cards (face cards removed)
How to Play: Place the deck of cards in the middle, face down. Each player draws one dominoe and places it with the lower number on the left to make a proper fraction (e.g., 2/6). Turn over one card from the pile. Each player uses the number on this card to multiply their fraction by(e.g., 5 x 2/6 = 10/6 = 1 and 4/6). Players say their fraction as either a proper or improper fraction, and as a mixed number where possible. Compare fractions. The player with the larger fraction gets a point. First player to score 10 points wins!

Math Talk

Would You Rather Math

Would you rather...



Problem Solving - Water Usage

Did you know that ***showering is the second largest water use*** in the home?
5 minutes in the average shower (standard showerhead) each day will use about 17 000 litres of water per year.

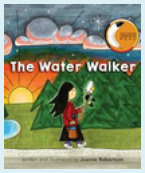
- If you had a one-minute shower, how many litres of water would you use over 12 months?
- How many litres of water would this be each day (with a 365 day year)?
- How much water will you save per year if you have a three-minute shower instead of a 5-minute shower?

Source: Household Guide to Water Efficiency

STEAM: Connecting with Water

Indigenous peoples have always used observations, reflections, and stories to understand their water relatives and build relationships toward a positive future. Walk to a place (or a few places) near your home where water lives. Also consider rain water, water in clouds, water droplets on plant relatives, water living in a puddle, etc. Take time to observe the water and surrounding place. What do you notice? What do you wonder? Where does the water come from? Where is it going? Who does it encounter along its journey? What does this place look like during other seasons? What about in the past or future?

Water Walking Activity Link: Indigenous STEAM



Click here to listen to the book: The Water Walker by Joanne Robertson

Snow Investigation

Winter is the perfect time to explore math while playing outside!
Grab a container and go outside to fill it with snow. How much snow did you collect? What is its volume? How do you know?
Now, bring your container of snow indoors. Before the snow melts, estimate the volume of liquid you think you be left with. Once the snow has completely melted, use a measuring cup to determine the volume of liquid. How close was your estimate?
How does the volume of liquid compare to the volume of snow? How much liquid would you be able to collect if you collected 2 times that amount of snow? 5 times that amount of snow?
Consider this! What impact would the melting of the glaciers have for people around the world?

About 70% of Earth's freshwater exists as snow or ice. Increased glacier melting contributes significantly to global sea-level rise, with today's sea level about 20 cm higher than in 1900.

Link to United Nations: World Water Day

Would you rather be bitten by 25% of 120 mosquitos **OR** bitten by 15% of 250 mosquitos?