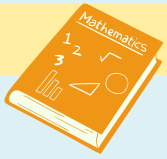
FAMILY MATH NEWSLETTER
INTERMEDIATE EDITION
ISSUE 2: November 2024

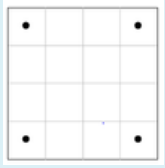
A Good Read

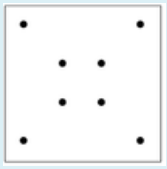


[Why Kids Should Learn Code (and how to get them started)]

By: Erik Missio, CBC

Puzzle:





One Hole Punch Puzzles

To complete a puzzle, take a square of paper, fold it using as many folds as needed so that if you punch one hole and unfold it, you will match one of the puzzles. Complete the following puzzles in any order.
Be prepared to discuss your strategies with others.

Math Talk

```
BEGIN
    INPUT price
    SET tax_rate = 13
    SET tax_amount = price * tax_rate / 100
    SET total_price = price + tax_amount
    OUTPUT "Tax Amount: ", tax_amount
    OUTPUT "Total Price: ", total_price
END
```

What does this code do?
Where would you find a code like this in a real-world context?
How could we change this code to calculate a discount of 13%?

Math in the Workplace

Electronics

The field of electronics has a wide range of job possiblies: assembling, testing, repairing, and inspecting consumer and industrial equipment, as well as designing and developing electrical and electronic equipment.

Where's the math?

- Working with the Real Number System
- Graphing
- Using the Cartesian plane for placing components.
- Sketches, diagrams, and application of geometry concepts.
- Metric conversions
- Use of rate, ratio, proportion

Check out Skills Competénces Canada to learning about MANY industry sectors and skilled trades that involve coding. Click the job of interest and then "Skills for Success" or the related PDF to learn about the math skills integrated into each job.

Try this!

Rice Krispie Squares

Ingredients

- 50 ml or 1/4 cup margarine or butter
- 1.25 L or 5 cups miniature or 40 regular (250 g pkg) marshmallows
- 2 ml or 1/2 tsp vanilla extract (optional)
- 1.5 L or 6 cups Rice Krispies® cereal

Directions

1. In large saucepan over low heat, melt margarine. Add marshmallows; stir until melted and well blended. Remove from heat
2. Stir in vanilla. Add cereal; stirring until coated.
3. Using lightly buttered spatula, press into a 3 1/2 L or 13" x 9" buttered pan.
4. Cool. Cut into bars.

Rice Krispie Square Recipe

Coding and Baking: A Sweet Comparison

Coding and baking might seem worlds apart, but they share some fascinating similarities! Both involve **sequential events** and **executing code** to achieve a desired outcome.

Code in programming is like a recipe in baking. Just as a recipe provides step-by-step instructions to create a delicious treat, code gives precise commands to a computer to perform tasks. Sequential events are crucial in both activities. In baking, you follow a specific order: mix ingredients, preheat the oven, bake, and cool. Similarly, in coding, you write instructions that the computer follows in a specific sequence to ensure everything works correctly. Finally, executing code in programming is like putting your cake in the oven. Once you've written your code or prepared your batter, you run the program or bake the cake to see the final result.

So, whether you're baking a cake or coding an app, remember that both require careful planning, following steps in order, and executing your plan to enjoy the sweet success!