Connecticut's Summer Math Problem Solving Passport For Incoming Grade 3

Created in partnership with the CT Council of Leaders of Mathematics Summer Math Work Group Committee

THE COMMISSIONER'S 2019 SUMMER MATH CHALLENGE

Your math adventure may take place inside and outside of your home or around town. You choose!

1. Use information from inside and outside of your home, neighborhood, and around town.
2. You are encouraged to work together with a friend or family member to solve each problem.
3. Record your thinking and solution in the space provided.
4. Show an adult your work and have them ask you a question about your math adventure.
5. Try to complete all of the adventures in your problem solving passport!
6. Bring your passport back to school in the fall to show the adventures you completed in order to help your school receive recognition for your hard work!
7. Most importantly, **have fun** and **stay safe**!

This passport belongs to: _____

Adventure #1: The Beach

Create the following arrays using shells or rocks and show how many you used each time by writing an equation.

- 2 rows of 6
- 3 rows of 4
- 4 rows of 5
- 5 rows of 5

Show Your Thinking Here:

Adventure #2: Hiking

Find out what the high and low temperature will be for the day of your hike.

What's the difference between them?

Check the temperature at 3 different times during the day (morning, afternoon, and night).

How does the temperature change throughout the day?

Show Your Thinking Here:

Adventure #3: Ice Cream

An ice cream cone is 4 inches tall.
Each scoop of ice cream is 3 inches tall.

1) If you get a 1 scoop cone, how tall would it be?
2) If you get a 3 scoop cone, what is the total height?
3) If you get a 5 scoop cone, how tall would it be?
4) If you were REALLY hungry, you could get a 10 scoop cone! What would the total height be?

Show Your Thinking Here:

Adventure #4: Gardening

One of the jobs that a garden center needs to do is keep track of its inventory. Inventory is how much of each item it has left to sell.

Head to a local garden center and do the following:

- Choose a category (flower, herb, or vegetable) that you can collect some inventory data on.
- Select four different types of plants that fit your category and find out how many of each are left.
- Create a graph to represent the data.
- Write 2-3 observations about your data.

(If you are unable to visit a garden center, collect some data about the plants in your own backyard.)

Show Your Thinking Here:

Adventure #5: Playground

Visit a local playground and bring a timer with you. *(You can use your watch or the stopwatch/timer on a cell phone.)*

Have someone time you running, hopping or skipping from one side of a field or court to another two times. If there is a playscape, you can also have someone time you on the slide, monkey bars, etc.

Find the difference between the fastest and the slowest times. Write your equation.

Show Your Thinking Here:

Adventure #6: Farmer's Market

You have $20 to spend at the Farmer's Market.

What items can you buy?

Would you have any money left over?

If so, how much?

(If you can't go to a Farmer's Market use the table provided.)

Item	Cost
Peach	$3.90/ lb.
Grapes	$6.50/ lb.
Peppers	75 cents each
Tomatoes	$2.90/ lb.
Spinach	$3 a bag
Green Beans	$3.50/ lb.
Zucchini	$3 / lb.

Show Your Thinking Here: