

Connecticut's Summer Math Problem Solving Passport For Incoming Grade 5

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



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

Get ready to build a sandcastle!



Gather a collection of rocks and shells (or any two objects you can find) to add decoration to your sand castle. $\frac{3}{4}$ of the collection needs to be shells.

- How many objects could you have?
- How many would be shells?

If you wanted to make two sandcastles, how many shells would you need?
What equation represents your answer?

Show Your Thinking Here:

Adventure #2: Hiking

Find out the distance of the trail you will hike today.

Convert the distance from miles into feet.

About how many yards is that?



Show Your Thinking Here:

Adventure #3: Ice Cream



Assume each topping container at your local ice cream shop is 3 inches by 5 inches.

What would the dimensions of the display case need to be to hold them all?

(If you can't get to an ice cream shop, try this problem with 12 possible toppings.)

Show Your Thinking Here:

Adventure #4: Gardening



Imagine you are asked to help create a flower border for a path that is 20 feet long.

Head to a local garden center and select one flower that is your favorite that you would like to use for the border.

Plants usually come with tags that provide information about their growth and needs.

- How far apart must this flower be planted from another?
- How many of this type of flower will you need to buy to line the border of the path?
- How could you represent this?

(If you are unable to visit a garden center, you can research information about a plant.)

Show Your Thinking Here:

Adventure #5: Playground

Bring a tape measure with you to your local playground. *(If you don't have one, you can use your own foot to estimate.)*



Measure or estimate the perimeter of the playground.

Now find the area.

Record your measurements below.

If you are able to visit a different playground, find the difference between the two playgrounds' areas and perimeters. Record your findings below.

Show Your Thinking Here:

Adventure #6: Farmer's Market

There are 48 ounces of fruits and vegetables at the Farmer's Market.

Two pounds of the fruits and vegetables are sold.

How many pounds of fruits and vegetables are left?

(If you aren't sure how many ounces are in a pound, you will need to look it up.)



Show Your Thinking Here: