



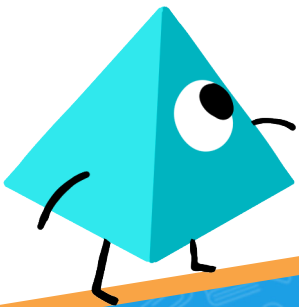
ST Math.  
Summer Immersion



# PROBLEM SOLVING JOURNAL

*This journal belongs to:*

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Bridge to  
**Grade 4**



# My Thinking Path

TOPIC: \_\_\_\_\_

## Starting my math journey...



What are the things I already know about this topic?

What are some questions I have about this topic?



## PROBLEM OF THE DAY | G4\_POD\_W1\_D1

Create a class “Getting to Know Our Class” chart.



## PROBLEM OF THE DAY | G4\_POD\_W1\_D2

Describe the class mathematically.



## PROBLEM OF THE DAY | G4\_POD\_W1\_D3

Create a bar model of a scale fraction with fourths. Use Cuisenaire rods, connecting cubes or paper strips to create your bar model. Build a number line from 0 to 3 using your bar model. Include fractions from halves, fourths, and eighths up to 3.



## PROBLEM OF THE DAY | G4\_POD\_W1\_D4

Kyle and Juan each had the same size chocolate bar. Kyle cut his into 6 equal size pieces and gave 2 pieces to Carla. Juan cut his bar into 3 equal size pieces and gave 1 piece to Carla. Compare how much chocolate bar each friend has.



# My Thinking Path

TOPIC: \_\_\_\_\_

## Reflecting on my math journey...



What new things did I learn? Did this experience make me think of anything differently?

What challenges am I having/questions I still have about this topic?

**3** math skills I used today:

**2** examples of what I learned:

**1** strategy I used OR 1 connection I made:

**1** big idea I learned today was:

today I discovered:



# ST Math Puzzle Reflection 1

Game:

\_\_ Minutes played \_\_ Puzzles played

Write or draw something you learned today.

Write or draw something that was easy/hard.

This connects to what I learned in class.



# ST Math Puzzle Reflection 2

Game:

\_\_ Minutes played \_\_ Puzzles played

Describe the math you learned.

Give a math example of the math you learned.

Write math vocabulary words you used.



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## PROBLEM OF THE DAY | G4\_POD\_W2\_D1

Jana and Deklan each brought the same size pan of brownies for the class party. Jana cut her brownie into 4 equal size pieces. Deklan cut his brownie into 3 equal sized pieces. They needed to give 24 students the same size piece. How could they do this with their two pans of brownies?



## PROBLEM OF THE DAY | G4\_POD\_W2\_D2

Howard and Imani were in charge of dividing the clay for their table in Art class. Each table had 4 students. Howard divided the clay into 4 equal sized pieces. Imani divided the clay into 8 equal sized pieces. Both tables fair shared all of their clay. Compare and contrast the clay students at each table received.



## PROBLEM OF THE DAY | G4\_POD\_W2\_D3

Draw a number line. Place the following fractions  $\frac{3}{6}$ ,  $\frac{7}{8}$ ,  $\frac{11}{12}$ ,  $\frac{8}{6}$ ,  $\frac{1}{8}$ ,  $\frac{3}{4}$ ,  $\frac{25}{12}$ ,  $\frac{6}{3}$ ,  $\frac{6}{12}$ ,  $\frac{6}{5}$ ,  $\frac{3}{5}$ , and  $\frac{14}{8}$  on the number line. Select three of the fractions you placed on the number line and explain how you determined where to place these fractions. Challenge yourself.



## PROBLEM OF THE DAY | G4\_POD\_W2\_D4

Isabella baked a pan of lasagna for her family of 4. She cut the lasagna into eight equal pieces. Explain how much lasagna each family member might eat. Write equations/inequalities to compare how much each family member ate. Find at least 3 different ways the family could share the lasagna.



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**3 math skills I used today:**

Blank white rounded rectangular box for writing math skills used today.

**2 examples of what I learned:**

Blank white rounded rectangular box for writing examples of what was learned.

**1 strategy I used OR 1 connection I made:**

Blank white rounded rectangular box for writing a strategy or connection.



**1 big idea I learned today was:**

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**today I discovered:**

Large blank white rounded rectangular box for writing what was discovered today.



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## PROBLEM OF THE DAY | G4\_POD\_W3\_D1

Keyton wanted to make 2 gallons of punch to take to the school picnic. He found a recipe that called for  $\frac{3}{4}$  gallon of fruit punch, 2 quarts of orange juice, 3 quarts of lime soda, and  $\frac{3}{4}$  gallon of water. If Keyton makes this recipe, will he have as much punch as he wants? Justify your solution.



## PROBLEM OF THE DAY | G4\_POD\_W3\_D2

Fill in the blank with the correct symbol (i.e.,  $>$ ,  $<$ ,  $=$ ) for this equation/inequality:  $\frac{3}{6} + \frac{4}{6}$          $\frac{2}{3} + \frac{2}{3}$ .  
Explain how you determined the symbol to use. Then use a number line to compare these two addition expressions.



## PROBLEM OF THE DAY | G4\_POD\_W3\_D3

Joan and Brett were decorating picture frames for a class store project. They needed  $3\frac{1}{4}$  feet of ribbon to decorate all their frames. Joan had  $2\frac{1}{2}$  feet of ribbon but used  $\frac{3}{4}$  of a foot of her ribbon for another project. Brett had  $2\frac{3}{4}$  feet of ribbon but used  $\frac{5}{4}$  of a foot of his ribbon for another project. Do they have enough ribbon for their project? Justify your solution.



## PROBLEM OF THE DAY | G4\_POD\_W3\_D4

Iris and her brother needed  $2\frac{1}{2}$  bags of popcorn kernels to make enough popcorn to sell at the school bake sale. Iris had  $1\frac{1}{4}$  bags and her brother had  $1\frac{3}{8}$  bags. Do they have enough bags of popcorn kernels? Explain how you know.





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## PROBLEM OF THE DAY | G4\_POD\_W4\_D1

Erica needs  $2\frac{1}{2}$  yards of cloth to make a blanket. She found  $1\frac{6}{8}$  yards of red cloth and  $\frac{4}{8}$  of blue cloth. Does she have enough to make the blanket? Explain how you know.



## PROBLEM OF THE DAY | G4\_POD\_W4\_D2

Demarius made pizza for his family. He gave  $\frac{3}{8}$  of the pizza to his mom,  $\frac{1}{8}$  of the pizza to his sister and ate the rest himself. Who ate more Demarius or his family? Explain how you know.



## PROBLEM OF THE DAY | G4\_POD\_W4\_D3

Carlos drinks  $\frac{2}{6}$  cup of milk at breakfast and again at lunch. At dinner Carlos drinks  $\frac{4}{6}$  cup of milk. How much milk does Carlos drink in 1 day? Explain how you know.



## PROBLEM OF THE DAY | G4\_POD\_W4\_D4

Bev is knitting a scarf for her mother. She knits  $\frac{4}{3}$  of a foot on Monday,  $\frac{2}{3}$  of a foot on Tuesday, and  $1\frac{2}{3}$  of a foot on Wednesday. Bev thinks she has knitted 4 feet of her scarf. Is she correct? Explain how you know.



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## PROBLEM OF THE DAY | G4\_POD\_W5\_D1

Barry had \$4.00. He earned \$2.75 a day for 5 days taking care of his neighbor's dog. How much money does he have now? Use a number line to show how much money Barry has now.



## PROBLEM OF THE DAY | G4\_POD\_W5\_D2

Loretta keeps time for each lap she runs around a track. The first lap she ran in 1.83 minutes. The second lap she ran in 1.9 minutes. She ran for three laps. Her total time for the three laps was 4.48 minutes. How long was her third lap?



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