

ST Math. Summer Immersion Problem Solving Slide Deck Grade 4

stmath.com

Module 1

Let's get started on the fun!



Module 1 - Day 1

New to ST Math?



Who is JiJi?





Module 1 - Day 1

New to ST Math?





Module 1 - Day 1

Share ST Math Experience!

What do you know about ST Math?

What do you like about ST Math?

What is your favorite ST Math game? Why?

One ST Math tip I have is . . .

A question I have is . . .

My ST Math Goal is . . .

I'm wondering about . . .











PROBLEM SOLVING!

ST Math Puzzle: Big Seed > Level 1

Learning Objective: What do you know about ST Math?















PROBLEM SOLVING!

ST Math Puzzle:

Scale Fraction Addition and Subtraction> Level 2

Learning Objective:

Solve problems involving comparing

fractions, including ordering on a number line









Module 1 - Day 4 $\frac{5}{5}$





PROBLEM SOLVING!

ST Math Puzzle: Fraction Bricks > Level 1

Learning Objective: Solve problems involving comparing fractions, including

ordering on a number line





Module 2

Can't wait to see what we do!









Time for **PROBLEM SOLVING!**

ST Math Puzzle: Common Denominator with Fractions > Level 1

Learning Objective: Compare fractions and understand equivalence

B Puzzle Link





How could they do this with their two pans of brownies?







B

Puzzle Link

Puzzle Talk

Time for **PROBLEM SOLVING!**

ST Math Puzzle: Common Denominator with Fractions > Level 4

Learning Objective: Compare fractions and understand

equivalence











Puzzle Talk

Time for **PROBLEM SOLVING!**

ST Math Puzzle: Estimate Fractions on a Number Line > Level 2

Learning Objective: Compare fractions and understand

equivalence







these fractions. Challenge yourself.





Module 2 - Day 4





Time for **PROBLEM SOLVING!**

ST Math Puzzle: Fraction Order Fill > Level 1

Learning Objective: Compare fractions and understand equivalence







- 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.

Module 3

Learning math carefree!









Time for **PROBLEM SOLVING!**

ST Math Puzzle: Alien Bridge > Level 1

Learning Objective: Add and subtract fractions and mixed numbers













G

Puzzle Link



ST Math Puzzle: Scale Fraction Addition and Subtraction > Level 1

Learning Objective: Add and subtract fractions and mixed numbers













Time for **PROBLEM SOLVING!**

ST Math Puzzle: JiJi Cycle Select Basket > Level 1

Learning Objective: Add and subtract fractions and mixed numbers














Time for

PROBLEM SOLVING!

ST Math Puzzle: Pie Monster > Level 1

Learning Objective: Add and subtract fractions and mixed numbers



Puzzle Talk

	Module 3 - Day 4 Problem Solvi	nġ
* *	Problem of the Day	*
	Iris and her brother needed 2_1/2 bags of popcorn	ł
	kernels to make enough popcorn to sell at the school	÷
	bake sale. Iris had 1_1/4 bags and her brother had	ł
	1_3/8 bags.	ļ,
	Do they have enough bags of popcorn kernels?	ł
	Explain how you know.	1

0,, Module 4 Let's learn some more!









Time for **PROBLEM SOLVING!**

ST Math Puzzle: Alien Bridge Symbolic > Level 3

Learning Objective: Adding and subtracting fractions and mixed numbers















Time for **PROBLEM SOLVING!**

ST Math Puzzle: JiJi Cycle Select Basket Symbolic > Level 1

Learning Objective: Adding and subtracting fractions and mixed numbers













 $\frac{2}{2} - \frac{1}{2}$

Puzzle Link

6



PROBLEM SOLVING!

ST Math Puzzle: Crank Pies Addition and Subtraction Symbolic > Level 1

Learning Objective: Adding and subtracting fractions and mixed numbers



Puzzle Talk







Module 4 - Day 4 $1\frac{1}{2} + 2\frac{1}{2}$





PROBLEM SOLVING!

ST Math Puzzle:

Scale Fraction Addition and Subtraction Symbolic > Level 1

Learning Objective:

Adding and subtracting fractions and mixed numbers



Puzzle Talk



Module 5

Let's see math come alive!







B

Puzzle Link



Time for **PROBLEM SOLVING!**

ST Math Puzzle: Fractions and Decimals Grid > Level 1

Learning Objective: Represent decimal fractions











Puzzle Talk

Time for **PROBLEM SOLVING!**

ST Math Puzzle: Number Line Trap > Level 1

Learning Objective: Represent decimal fractions









Slides 62-63

© Time for REFLECTION!



LET'S BRAINSTORM

- ★ What math concepts did you learn this summer?
- ★ What new vocabulary did you learn?
- ★ What strategies did you use when you got stuck?
- ★ How did you become a better
 - mathematician?

© Time for REFLECTION!



DESIGN A REFLECTION POSTER

Share what you know!

- ★ What math concepts did you learn this summer?
- ★ What new vocabulary did you learn?
- ★ What strategies did you use when you got stuck?
- ★ How did you become a better mathematician?

Make your poster colorful, interesting and informative.



Mini Math Game Design

Use Slides 65-69 if using the 4-Day Immersion Program



We are going to create a game like the ones you played this summer!









Can you make a game to teach or practice a math concept?

- ★ What is your game called?
- ★ How many players can you have?
- ★ What are the directions and rules for your game?





Now it's time to make a new game!

Work together to make a game that your friends will want to play.

Learning Showcase and Celebration Slides

Velcone to ST Math Immersion's Learning Showcase & Celebration!

AGENDA (Sample)

10:00 am - Welcome Gallery Walk of Posters 10:15 am - Presentation 10:30 am - Debriefing Time 11:00 am - Game Time 11:30 am - End Time




Problem Solving Process



STMath

Created by MIND Research Institute



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