

Whose book is this?



ST MATH ACTIVITY PAGES

3rd Grade

Welcome to the ST Math Activity Pages!

This activity page is like a playground of your favorite ST Math games in book form.

Scan the QR codes to play the ST Math puzzles related to each page.



I like the challenging problems in this book because I like the feeling when I figure it out.

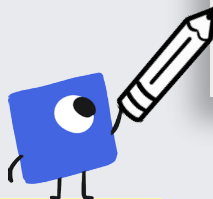
I like problems that are:

- tricky
- easy
- complex
- short
- open-ended
- _____

because...

The problems remind me of the games in ST Math.

There are many ways to show your thinking.



What's Inside?

MATCH FRACTION

Match & Make

$\frac{2}{5}$ $\frac{5}{8}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{4}{6}$ $\frac{2}{3}$

That's just one whole.

Which two fractions are the same size?

I'm obsessed with $\frac{3}{4}$ right now! I want to color in $\frac{3}{4}$ everywhere!

If all of these models represent $\frac{3}{4}$, why are they so different from each other?

The tricky part of making fractions is:

Match

Write $2 \times 3 = 6$

Model

Draw

Fill in

Plot

2 groups

What if I don't know what to do?

Try writing down what you think and then see how your ideas work out.

What if I don't get it correct right away?

Mistakes are okay because you can always come back to it. And mistakes help us learn!

This is **your** math journey, so make this book **yours** - fill it with your ideas, make mistakes, and challenge yourself!



The ST Math Activity Pages may look new to you and your child, and that's great! Every problem is a learning opportunity. Use the Activity Pages to talk and wonder about math with your child.

<i>If...</i>	<i>Then...</i>
You're not sure what to do	Talk through the ideas each of you have and what makes most sense to each of you, then try it out! Problem solving is collaborative.
Your child is stuck	<p>Ask questions to see how they're thinking.</p> <p>Move on to a different problem that interests them.</p> <p>Return to a problem they understand to make connections.</p> <p>Take a break.</p>
ST Math is new to you	Have your child explain how the game works to you.

Remember:

- It's not about getting an answer, but how your child is thinking about a problem. If you can't get to an answer, how much progress can you make towards it?
- Getting the right answer is less important than how you handle and approach being stuck.

Math Themes of 3rd Grade

- Multiplication
- Multi-step problem solving
- Measurement
- Fair sharing and division concepts
- Fraction concepts

Questions you can ask your child

- What is the ST Math game about?
- What do you already know about this problem? Or things you know related to this problem?
- What else do you see on this page that could be a clue?
- What was your strategy on a previous, simpler problem?
- Based on the question, what is a reasonable answer?
- Try out a solution and re-read the problem. Does it make sense?

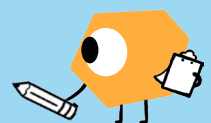


Bring math into your lives

As a family, you can continue to explore and discover math in the world around you.

Play games, read stories, and create projects at mindresearch.org/mathminds

Find more resources for math at home at stmath.com



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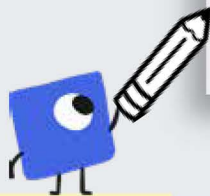
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- | | |
|-------------------------------------|--------------------------------|
| <input type="checkbox"/> tricky | <input type="checkbox"/> easy |
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Jiji Cycle

Mark where Jiji will land.



0

1

2

3

4



How many \triangle would it take instead?

How did you figure it out?

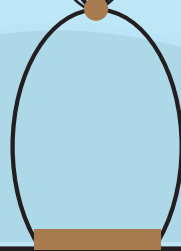


0

1

2

3



Who is at $2\frac{1}{2}$?



0

1

2

3

4

Where is the bee?



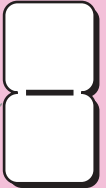


MATCH FRACTION

Match & Make

$\frac{1}{4}$

$\frac{4}{6}$

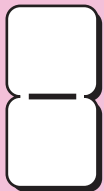
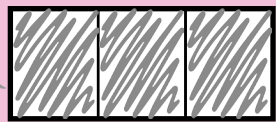
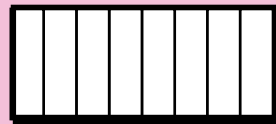


$\frac{2}{3}$

$\frac{2}{5}$

$\frac{5}{8}$

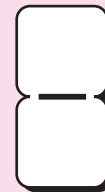
$\frac{1}{2}$



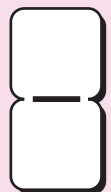
That's just one whole.



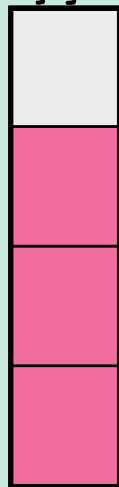
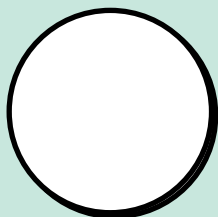
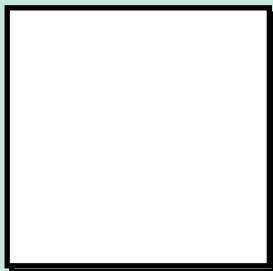
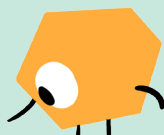
Which two fractions are the same size?



=



I'm obsessed with $\frac{3}{4}$ right now! I want to color in $\frac{3}{4}$ everywhere!

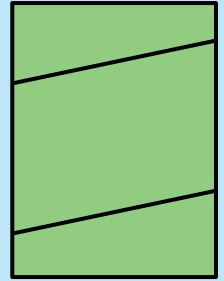
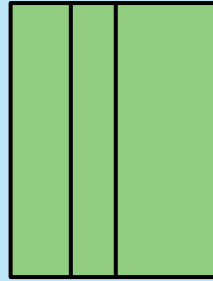
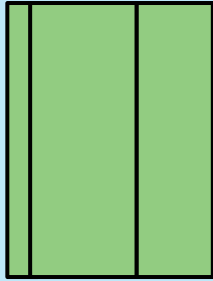
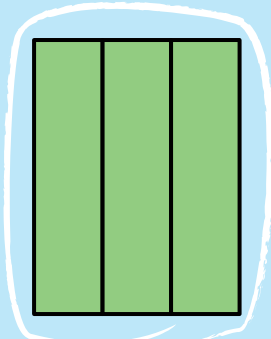
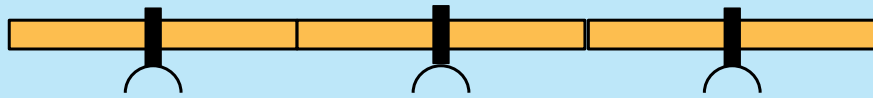


If all of these models represent $\frac{3}{4}$, why are they so different from each other?

The tricky part of making fractions is:



EQUAL AREAS

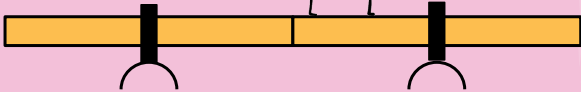


I can tell all the pieces of this one are equal because...

[Blank space for writing]

Is there another one here?

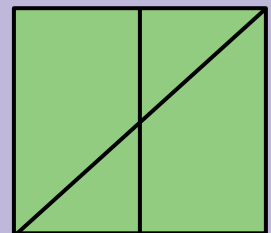
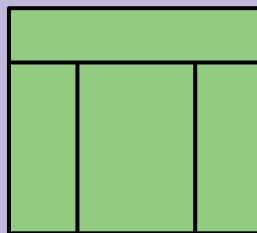
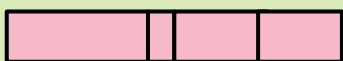
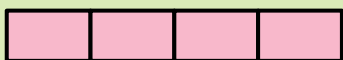
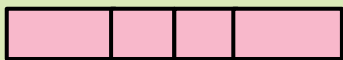
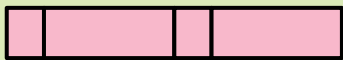
Want to share this cookie? I'll give you half.



What?? That's not half because...

[Blank space for writing]

Let me try making half.



Neither of these will work, but I can make one that will!



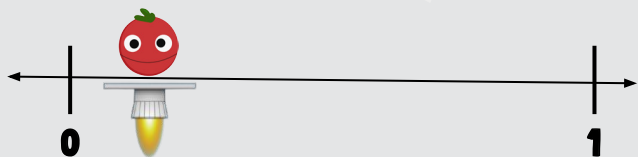
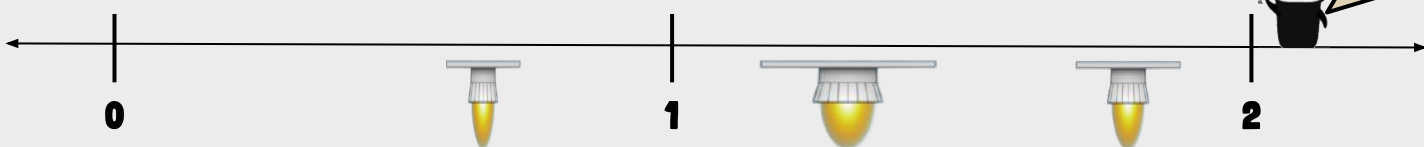
ESTIMATE FRACTIONS ON A NUMBER LINE



Whose spaceship is at $\frac{4}{8}$?

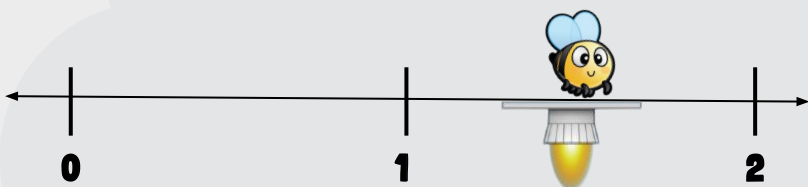


Draw an x on the spaceship showing $\frac{5}{3}$.

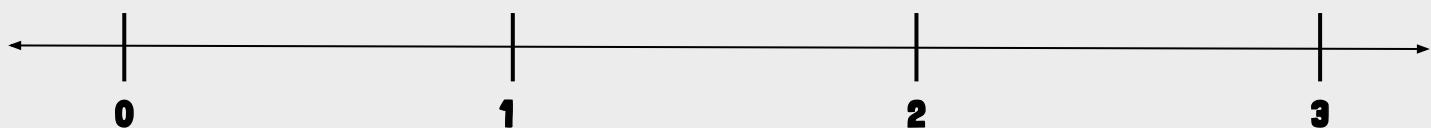


Is Paco at $\frac{1}{3}$ or $\frac{1}{7}$?

Is the bee at $\frac{4}{6}$ or $\frac{6}{4}$?

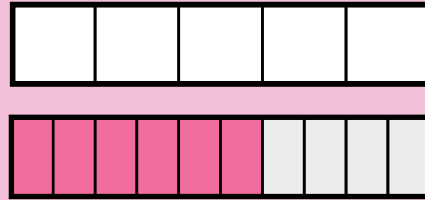


I want to land at $\frac{9}{4}$.
Draw an arrow to where I should go.

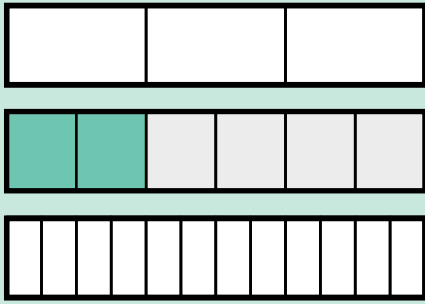




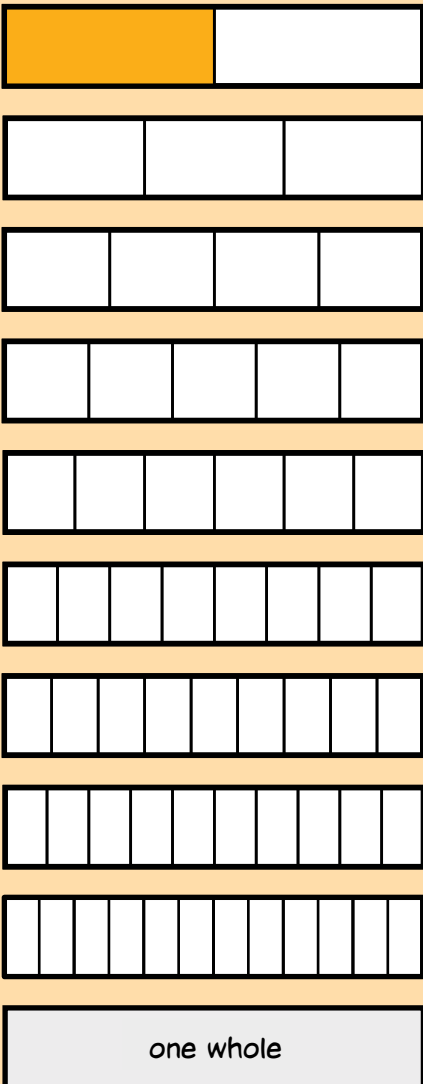
FRACTION BRICKS



$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$



$$\frac{\quad}{\quad} = \frac{2}{6} = \frac{\quad}{\quad}$$



$$\frac{1}{2} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

I can't make equivalent fractions out of all of these bars because...



$$\frac{3}{4} = \frac{\quad}{\quad}$$