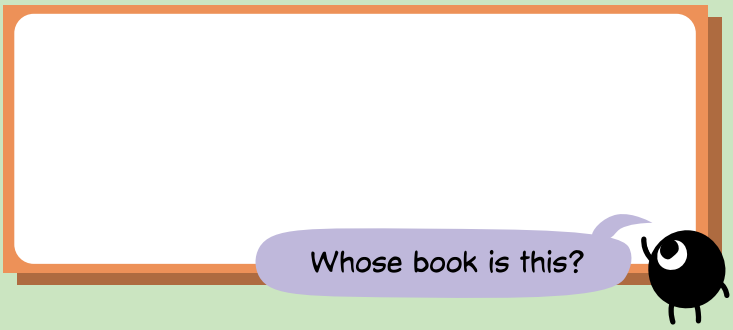


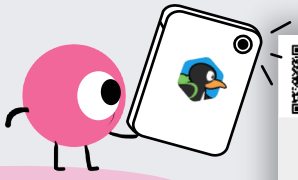
ST MATH ACTIVITY PAGES

4th 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.

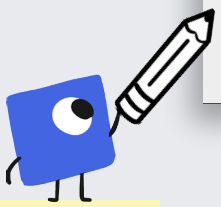
I like problems that are:

- ☐ tricky
- ☐ easy
- ☐ complex
- ☐ short
- ☐ open-ended
- ☐

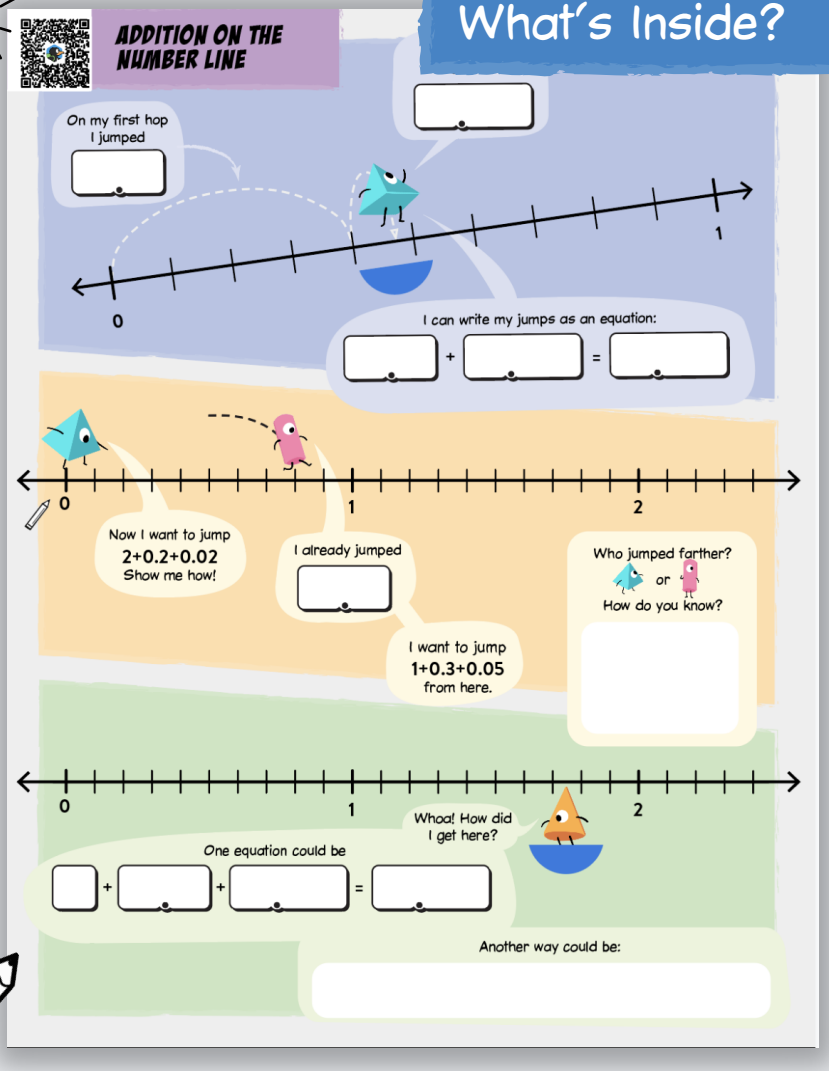
because...

The problems remind me of the games in ST Math.

There are many ways to show your thinking.



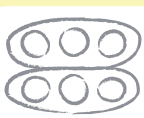
What's Inside?



Write

2 x 3 = 6

Model

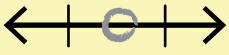


2 groups

Match

Draw

Plot



Fill in

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

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!

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.

For Families

If...	*Then...*
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	Ask questions to see how they're thinking. Move on to a different problem that interests them. Return to a problem they understand to make connections. Take a break.
ST Math is new to you	Have your child explain how the game works to you.

Remember:

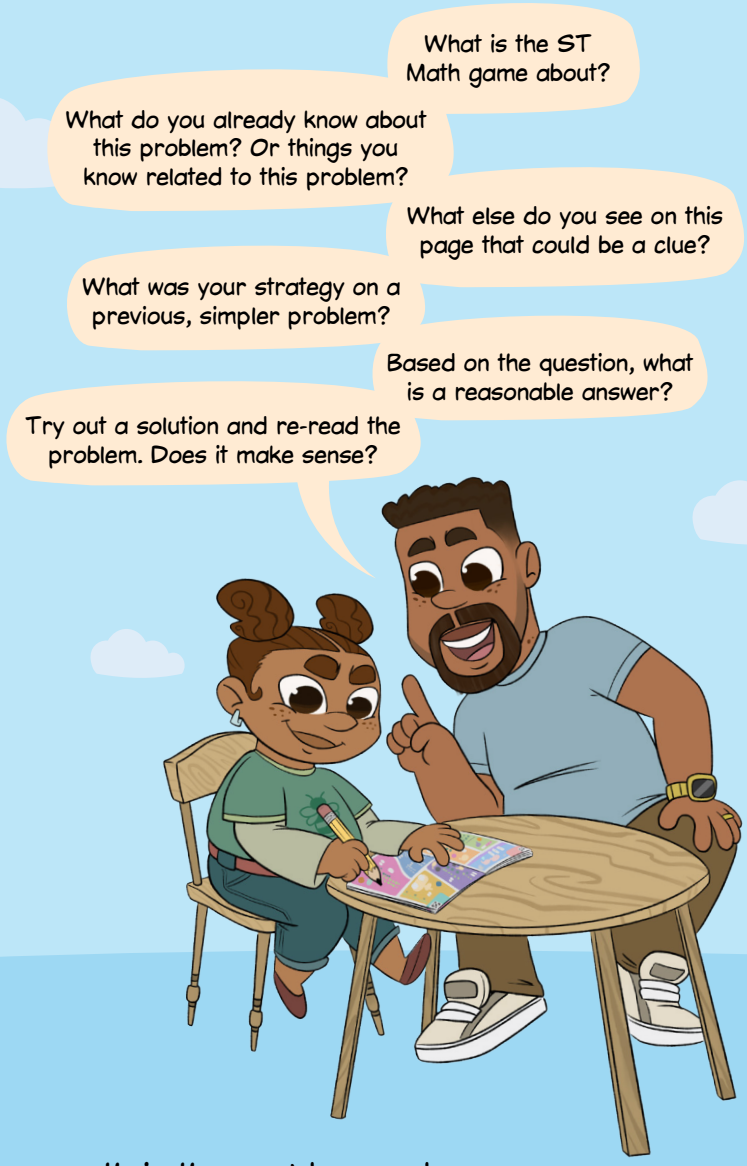
It's not about getting an answer, but how your child is thinking about a problem. If you can't get to an answer, how much progress can you make towards it?

Getting the right answer is less important than how you handle and approach being stuck.

Math Themes of 4th Grade

- Multiplicative reasoning and comparisons
- Fractions and decimals
- Units of measurement
- Multi-step problem solving
- Lines and angles

Questions you can ask your child



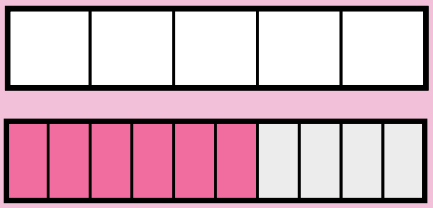
Bring math into your lives

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

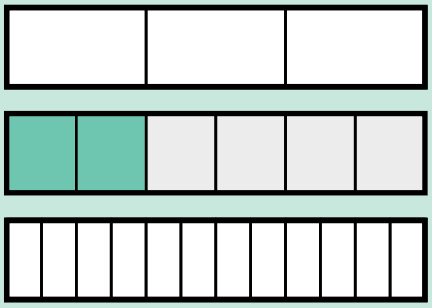
Play games, read stories, and create projects at ***mindresearch.org/mathminds***

Find more resources for math at home at ***stmath.com***

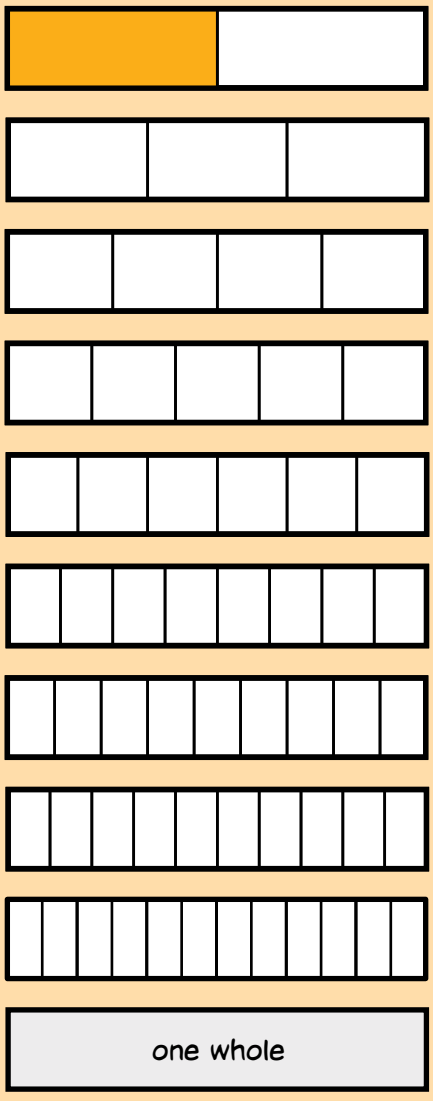
FRACTION BRICKS



$$\frac{\square}{\square} = \frac{\square}{\square}$$



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

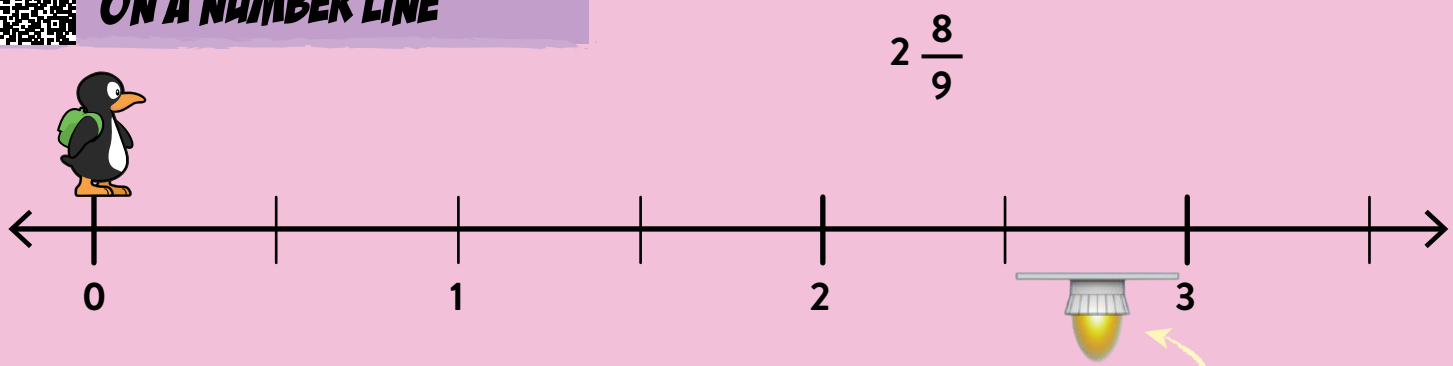


$$\frac{1}{2} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$$

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

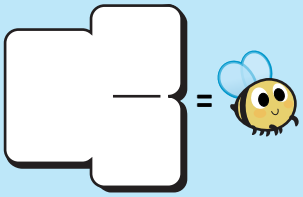
$$\frac{3}{4} = \frac{\square}{\square}$$

ESTIMATE FRACTIONS ON A NUMBER LINE

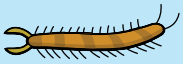


Will JiJi land on the platform?
How do you know?

Where are the critters located on the number line?



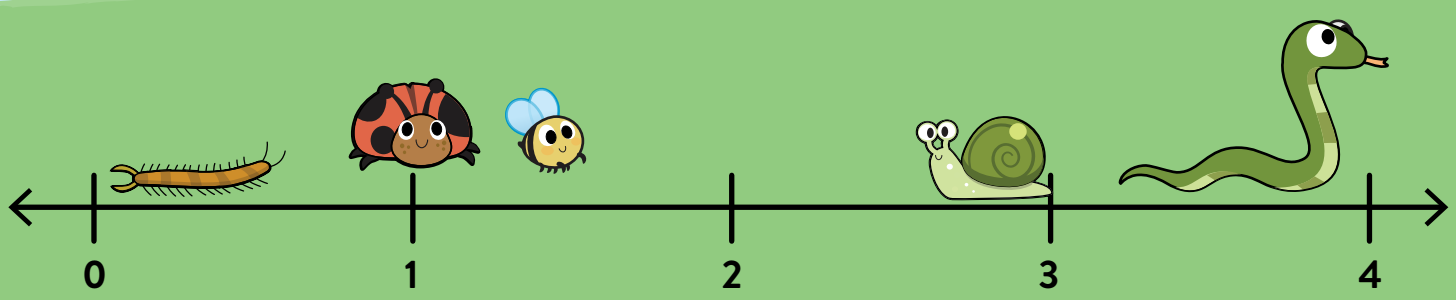
$= \frac{3}{3}$



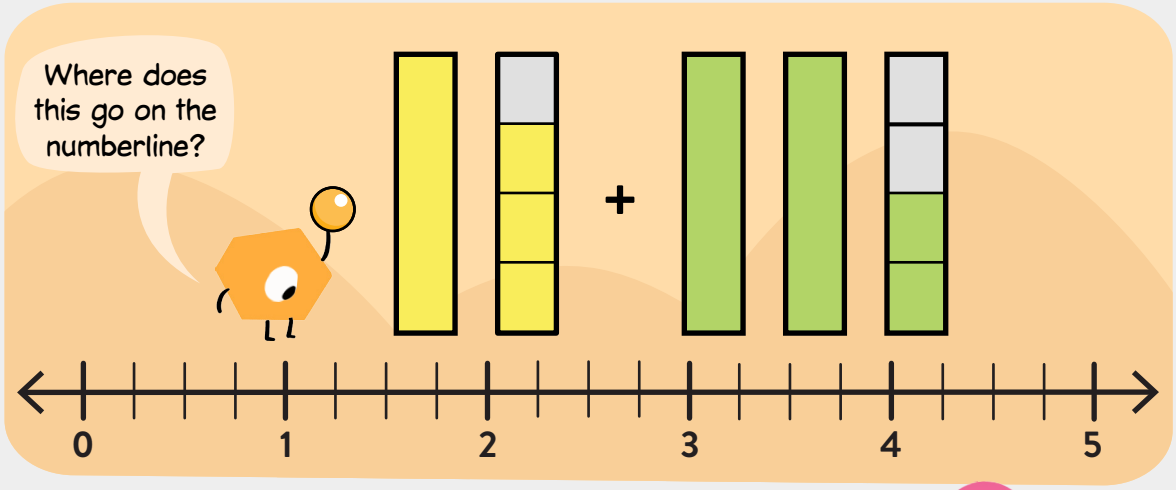
$=$ or $=$

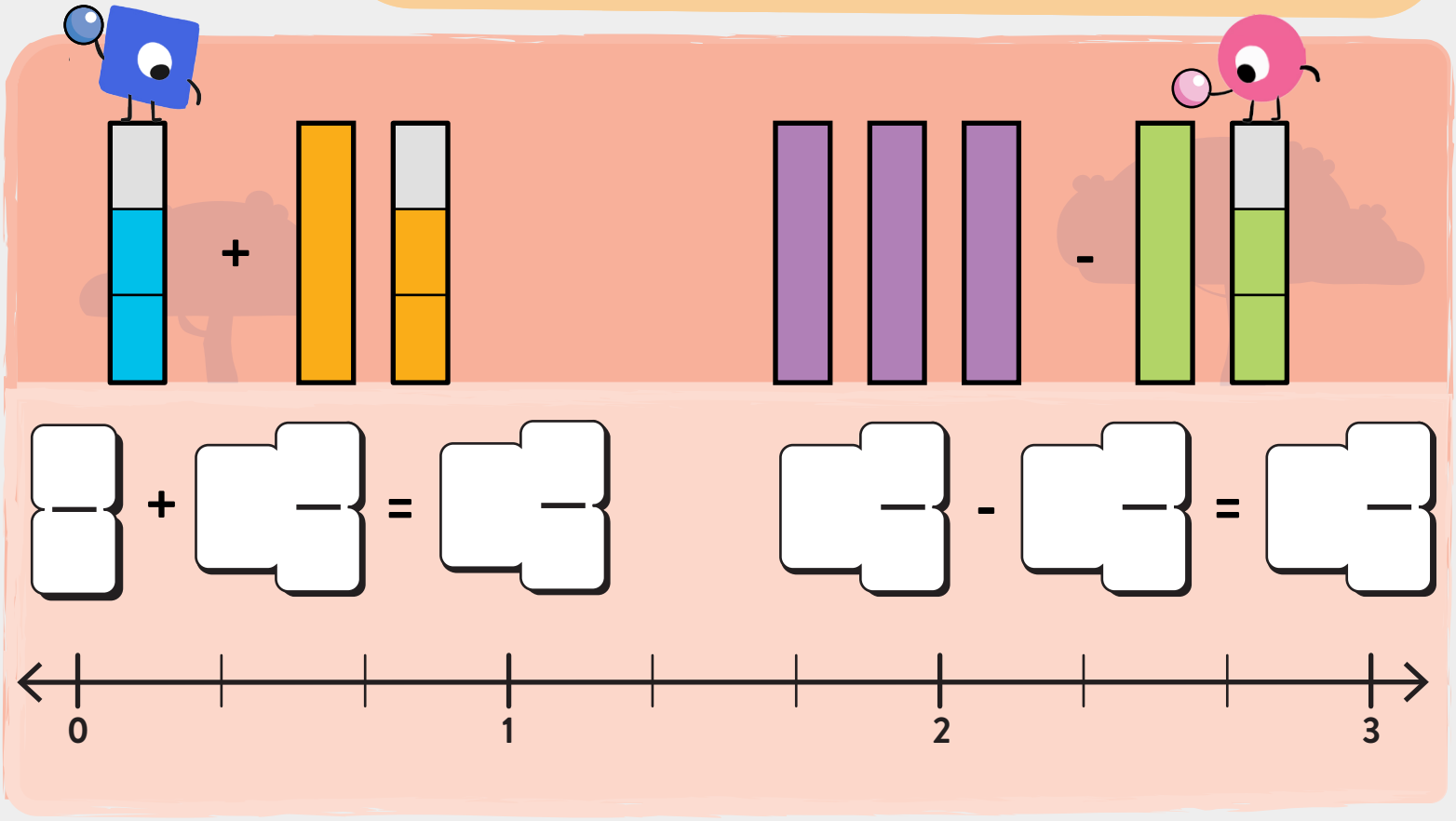
$=$

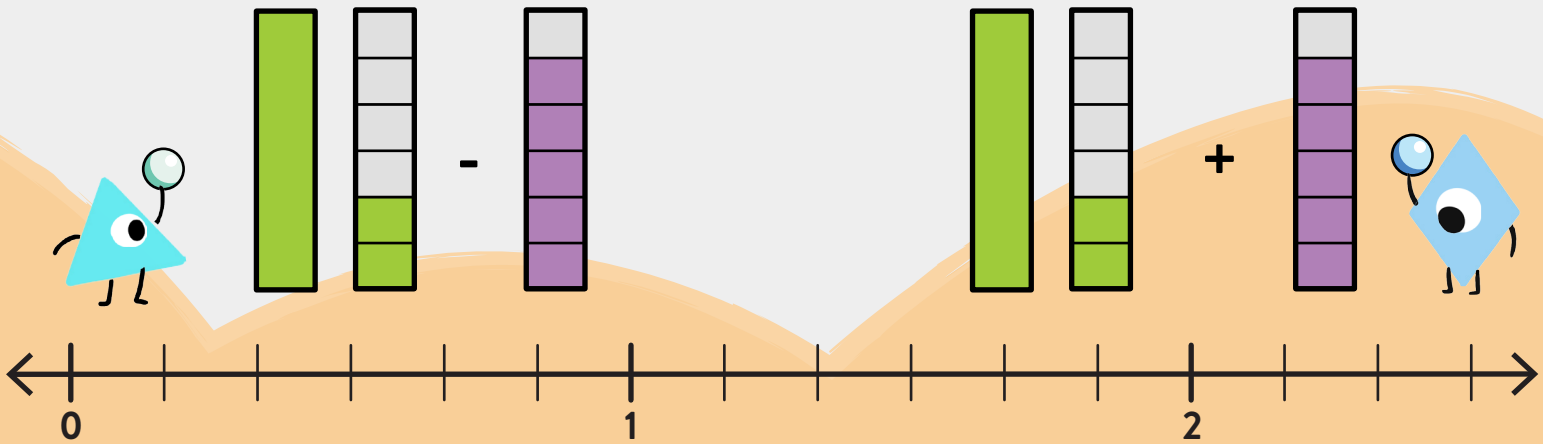
$\frac{23}{6} =$



SCALE FRACTION







JIJI CYCLE SYMBOLIC

It's also at

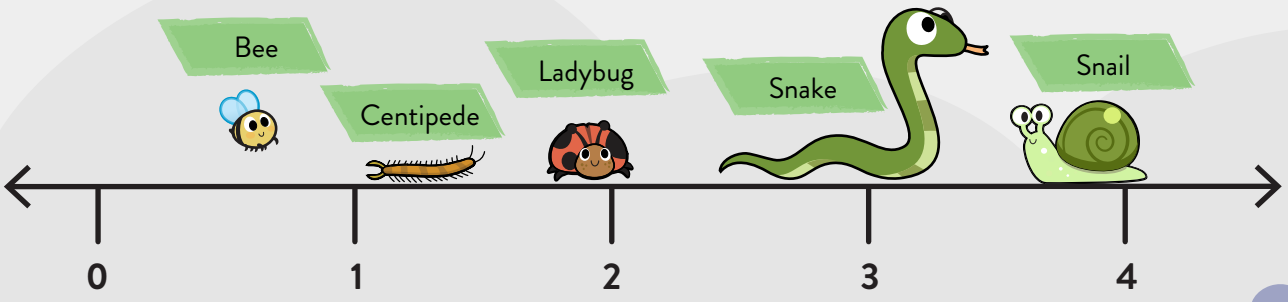
$\frac{3}{6}$ + ☐ !

Which creature is at

$\frac{6}{2} - \frac{2}{2}$?

I spy a centipede at... ☐

I see a snail at... ☐



My dog chased a

at $\frac{8}{4} + \frac{7}{4}$

I'm allergic to

So keep me away from

$\frac{5}{4} - \frac{2}{4}$

I love

So I should look at...

$\frac{4}{3} + \frac{4}{3}$

Which creature is your favorite?

How would you get to them from $\frac{4}{3}$?

FRACTION & DECIMAL GRID

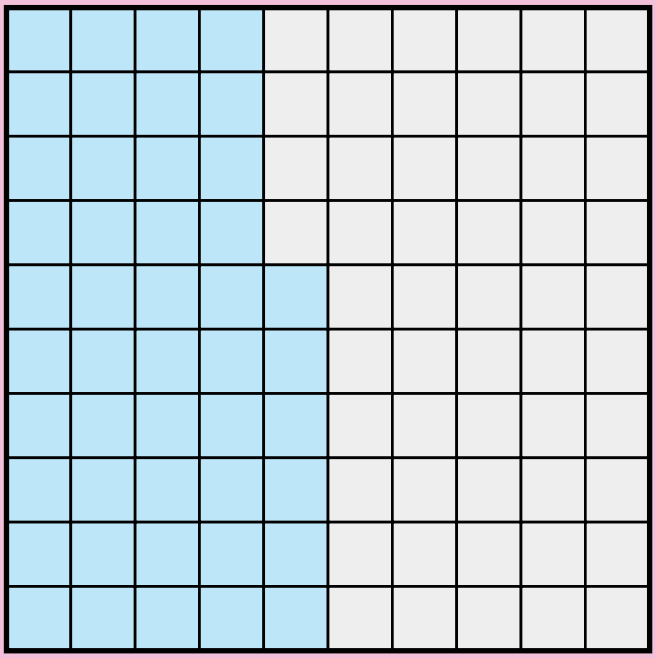
$\frac{6}{10} + 0.04 =$ ☐

$0.06 + \frac{4}{10} =$ ☐

$\frac{4}{10} + 0.6 =$ ☐

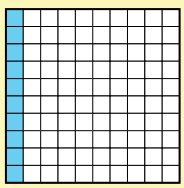
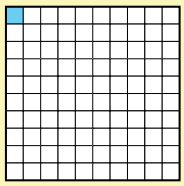
$0.06 + \frac{4}{100} =$ ☐

Circle the equation that is modeled by this grid.



The empty part of this grid can be expressed as:

This table will be helpful to keep track of tenths and hundredths.

Model	Words	Decimal	Fraction
	One-Tenth		☐/☐
			1/100

This is equal to:

☐/100