## Math in Your World

My family is doing lots of reading while we're at home. Trix and Sean both like to read books in a series.

Sean's stack is on the left, and Trix's is on the right. It took Sean 14 days to read his shortest book. It had 392 pages.

It took Trix 7 days to read her shortest book. It had 294 pages.

1. What do you notice? What do you wonder?

2. Show any relationship between the books or the time it takes to read them using pictures, models, or numbers.

3. What math questions can you ask about this situation? Answer all the questions you can!

Fractions
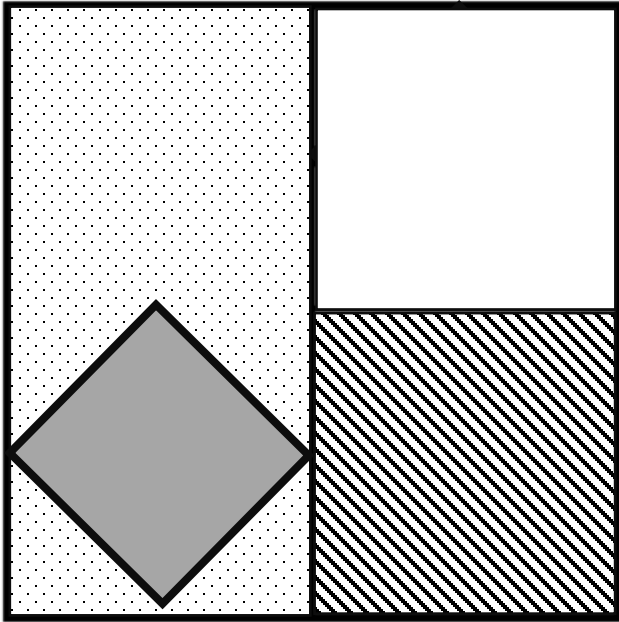
The area of diagonal black and white stripes is ¼ of the of the figure, what fraction of the area is covered by the grey tilted square?

Explain your answer -mark up the diagram to help clarify or show your explanation.

What would be the area that is covered by the tiny black dots?

Volume

When I walked by the principal's office, I peeked through the door and saw these cupcakes on their desk.

I wondered if they were for my class and if there were enough for everyone How many cupcakes are there?

I wasn't sure.   How did you figure this out?

Express the World Mathematically.

I wanted to use this picture for math class. It was supposed to be an 8 x 5 array.

Then I noticed one of the cookies was missing!

Now I *can't* represent this as the math expression: 8 x 5!

*How can we think about the number of cookies now? How can we see "How Many?"*

Making a Mural

I was bored and painted a picture on canvas. The canvas was 6 inches tall and 8 inches wide.
I used 8 ounces of paint. It came out really nice!

I decided I wanted to *recreate* it as a large mural on my wall. I started thinking about how I can keep the picture *looking the same* while increasing the dimensions for the larger space.

1. What do you notice? What do you wonder?

2. Show how the canvas and the wall are related using pictures, models, or numbers.

6 inches

8 inches
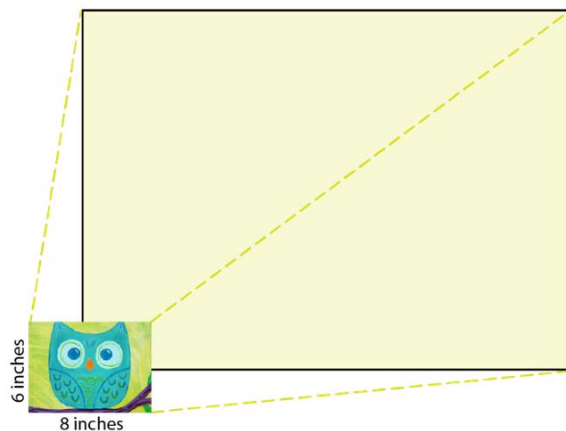
3. What math questions can you ask about this situation? Answer the questions you can!