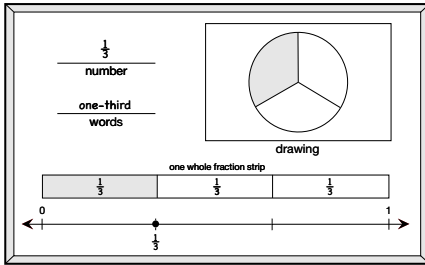


**Circles, Fraction Strips, and Number Lines**

Mr. Martin's class played Show That Fraction. They showed  $\frac{1}{3}$  in five different ways on the board.

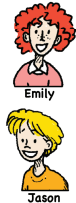


**Discuss**

Emily wrote  $\frac{1}{3}$  as a number and in words.

Jason said, "One-third is like the orange fraction circle piece," and he drew the picture on the board.

- How does Jason's drawing show  $\frac{1}{3}$ ?
- What do the denominator and the numerator in  $\frac{1}{3}$  tell you?
- What is the unit whole?
- What other fraction circle pieces could Jason use to show  $\frac{1}{3}$ ? How many would he use of each piece that you named?



**Student Guide**

**Circles, Fraction Strips, and Number Lines (SG pp. 262–263)**

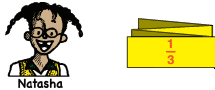
**Questions 1–14**

- The circle is divided into 3 equal parts and Jason shaded one of the parts.
- The denominator tells you the total number of pieces is three and the numerator says you are talking about 1 of those pieces.
- The unit whole is the whole circle.
- 2 aqua pieces (sixths)
- The strip is divided into 3 equal parts and 1 of the parts is shaded.
- The unit whole is the whole strip.
- The space between 0 and 1 is divided into 3 equal parts. The number  $\frac{1}{3}$  is written at the first of the 3 parts.
- The unit whole starts at 0 and ends at 1.
- Yes, Kathy divided the whole pack of cards into 3 equal parts and each part had 4 cards in it.
- The unit whole is the whole pack of trading cards. There are 12 cards in the whole pack.
- 8 cards
- $\frac{4}{12}$
- $\frac{3}{12}$  or  $\frac{1}{4}$
- $\frac{1}{12}$ ; the denominator is the total number of cards which is 12, and she kept 1 of the cards so the numerator is 1.

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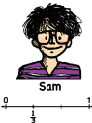
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Natasha used a fraction strip. "This shows  $\frac{1}{3}$ !" Then, she shaded in  $\frac{1}{3}$  of a fraction strip on the board.



- How does the fraction strip on the board show  $\frac{1}{3}$ ?
- What is the unit whole?

Sam said, "Do not forget the number line." He put a point at  $\frac{1}{3}$  on the number line on the board.

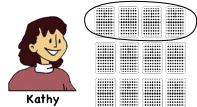


- How does Sam's number line show  $\frac{1}{3}$ ?
- Where does the unit whole start and where does it end?

Kathy raised her hand and said, "I think I know another way. Last night my dad gave me a pack of baseball trading cards to share with my two sisters. I counted 12 cards. I took four cards and divided the rest between my sisters. I got  $\frac{1}{3}$  of the pack of cards."



"Can you show us why you think you got  $\frac{1}{3}$  of the pack of trading cards, Kathy?" asked Mr. Martin. Kathy drew 3 rows with four cards in each. She circled one of the rows of cards.



- Did Kathy get  $\frac{1}{3}$  of the pack of trading cards? How do you know?
- What is the unit whole? How many trading cards are in the unit whole?
- How many trading cards is  $\frac{2}{3}$ ?
- Write another fraction for the amount of cards that Kathy got.
- Kathy traded three of her cards with a friend the next day. What fraction of the whole pack did she trade?
- After sharing with her sister and trading, what fraction of the pack of trading cards did Kathy keep? How did you decide on the numerator and denominator?

Use the *Many Ways to Show a Fraction* pages in the *Student Activity Book* to practice showing fractions.

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