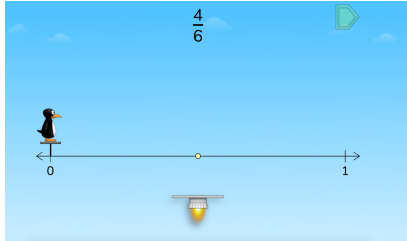


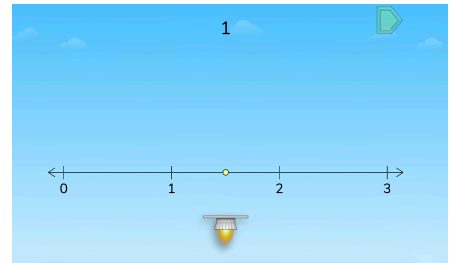
Materials

Fraction Number Lines Math Mats (back to back in sheet protector)
Dry erase markers



- Give students Fraction Number Lines Math Mats and dry erase markers. Display the first puzzle in Level 2. Ask students, “What do you notice? How do you think you might solve this puzzle?” Ask students to Think, Pair, Share their ideas.
- Have students share their strategies for locating the fraction on the number line.
- Discuss how they partition the number line and then locate the fraction.
- Have students mark the location of the fraction on the 0-1 number line.
- Select some students to share their strategy. Solve the puzzle and repeat with the remaining puzzles in Level 2.

- Display the first puzzle in Level 4. Ask students, “How do these puzzles compare to the puzzles in Level 2?” Have students turn and talk to a neighbor about how the puzzles are different.
- Have students mark the location of the fraction on the 0-5 number line.
- Have students share their strategies for locating the fraction on the number line.
- Discuss how they know which two whole numbers the fraction is between.
- Ask students, “Is there another name for this fraction? Focus your discussion on equivalent fractions, mixed numbers and benchmarks on the number line.
- Repeat with the remaining puzzles in Level 4.


Directions
Sample Questions

- What do you notice about the number line?
- Is there another name for that location on the number line? (for a fraction at a half or whole number)
- What does the animation show us? (Discuss the role of the numerator and denominator in a fraction.)
- How can you use fractions you can easily locate (benchmark fractions) to help you locate this fraction (e.g., 8/3)?
- Freeze animation and ask, “Where would an additional $\frac{1}{2}$ be located on this number line?”
- How can you quickly tell if a fraction is more than 1 or less than 1?

What to look for

How does the student:

- use benchmarks to locate fractions? (I know $\frac{1}{2}$ is here and this is between $\frac{1}{2}$ and 1.)
- decide which whole numbers to locate a fraction between?
- explain fraction equivalence?
- use the number line to add/subtract determine the location of fractions?