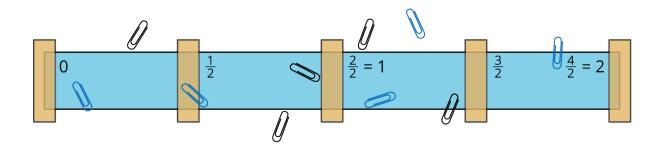


Lesson 17: Paper Clip Games

• Let's create a game about locating and comparing fractions on the number line.

Warm-up: Notice and Wonder: Lots of Paper Clips

What do you notice? What do you wonder?



17.1: Paper Clip Tossing Game

Let's prepare a game board and figure out how to toss paper clips and record the results!

- 1. Make your game board:
 - $^{\circ}$ Tape the paper strip to your workspace. Place the tape at these benchmarks: 0, $\frac{1}{2}$, 1, $\frac{3}{2}$, and 2.
 - $^{\circ}$ Label the benchmark fractions 0, $\frac{1}{2}$, 1, $\frac{3}{2}$, and 2 on the paper strip.
- 2. Play the game:
 - $^{\circ}$ Take turns tossing the paper clips onto the game board.
 - $^{\circ}$ Label the fraction where each paper clip lands.

Be prepared to share your strategies for tossing the paper clips and for finding out the fractions for their locations.



17.2: A New Game with New Rules

Invent your own game.

1. Make a list with the rules of your game.

- 2. Play your game, paying close attention to the rules.
- 3. Revise and clarify your game rules, if necessary.

17.3: Field Test

Let's try out these games!

- 1. Before playing the game, exchange your game rules with another team. Carefully read the rules. Take turns asking clarifying questions, if you have any.
- 2. Play each other's games.
- 3. After playing the game, give feedback to each other about the rules.
 - a. What is one thing you liked about the other team's game?

b. What is one thing you might change?