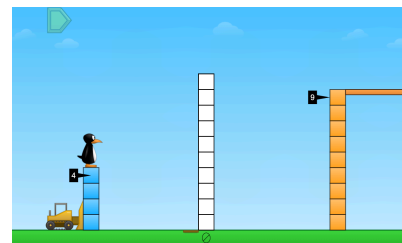




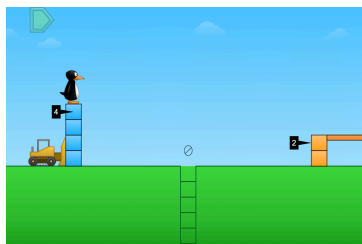
Materials

Push Box Game Mat 01
connecting cubes or centimeter cubes
whiteboards and markers

- Display the first puzzle in Level 1 and have students discuss what they notice.
- Give each student the Push Box game mat and connecting cubes or centimeter cubes. Ask students to model the puzzle on their game mats using the cubes.
- Ask students, “How do you think we solve this puzzle? What is the unknown in this puzzle?” Work together to write an equation to represent the puzzle, using a question mark for the unknown. For example, $3 + ? = 8$.
- Have students work with a partner to solve the puzzle. Pause the puzzle before JiJi crosses the screen. Ask students to record the answer on their whiteboards. For example, students would write $3 + ? = 8$, $? = 5$
- Repeat with other puzzles in Level 1. For each puzzle:
 - Have students represent this puzzle on their game mat and show how they would solve it.
 - Share several examples from drawing arrows, etc. to writing equations.



Directions



- Display the first puzzle in Level 2. Ask students, “What do you notice in this puzzle? How is this puzzle different from the puzzles in Level 1?”
- Ask students, “How do you think we solve this puzzle? What is the unknown in this puzzle?” Work together to write an equation to represent the puzzle, using a question mark for the unknown. For example, $5 - ? = 3$.
- Have students work with a partner to solve the puzzle. Pause the puzzle before JiJi crosses the screen. Ask students to record the answer on their whiteboards. For example, students would write $5 - ? = 3$, $? = 2$
- Repeat with other puzzles in Level 2. For each puzzle:
 - Have students represent this puzzle on their game mat and show how they would solve it.
 - Share several examples from drawing arrows, etc. to writing equations.

Sample Questions

- How many blocks would JiJi be standing on if we added 6 more blocks in a second stack?
- Are there any other solutions to this puzzle?
- What is the unknown in this puzzle?
- Does this puzzle represent addition or subtraction? How do you know?
- How could you represent this puzzle with an equation?

What to look for

- How do students:
- use the Push Box Game Mat to help solve the puzzles?
 - share their strategies to solve the puzzle?
 - write equations to represent the solutions?
 - write an equation to show the new total after adding ten to the solution?
 - find and discuss all the possible solutions for one puzzle?