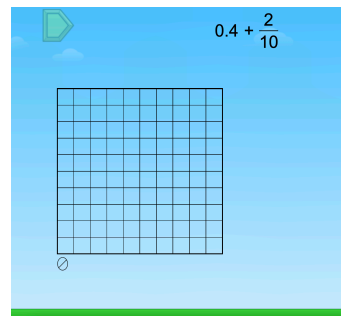


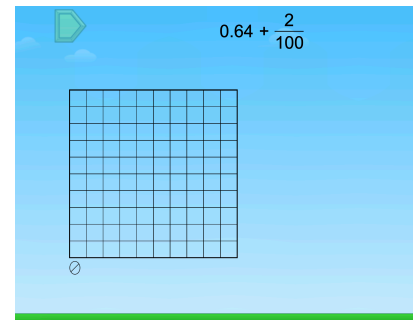
Materials

White boards and markers
Hundreds Grid Math Mat

Directions


- Give students whiteboards, dry erase markers and the Hundred Grid Mat. Display the first puzzle from Level 1. Ask students, “what do you notice?” Have students Think, Ink, (write down on their whiteboard) Pair, Share how they might solve the puzzle.
- Share students’ solutions and strategies for solving the puzzle.
- Show and have students solve other puzzles from Level 1.
- Have students discuss the solution and solution strategies.
 - Compare the different forms for writing the numbers.
 - Have students write equations for the problem.

- Display the first puzzle from Level 2. Discuss how these puzzles compare to puzzles in other levels.
- Have students use the Hundred Grid Math Mat. Have students show their solutions on their mat.
- Have students show and discuss the equation for the puzzle.
- Examine the animation and give students a chance to compare the numbers and the grid.
- Have students write expanded forms of the numbers and compare to the decimal and fraction forms.
- Repeat with the other puzzles in Level 2.


Sample Questions

- When you shade in the hundred grid how do you know what number to put as the numerator/denominator of the fraction?
- What represents one whole on the hundred grid? One-tenth? One-hundredth? How do you know?
- What would the fraction and decimal form be if the entire grid was shaded?
- What is the equivalent for this number (e.g., 40/100) if the denominator is 10?
- How might you write 46/100 using tenths and hundredths?

What to look for

How does the student:

- understand that the fraction and decimal forms of writing the numbers are equivalent?
- compare the different forms for writing the numbers, including expanded form?
- understand what the whole is in the numbers?