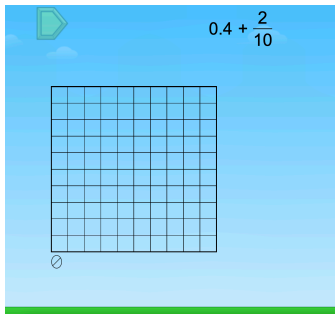


Materials

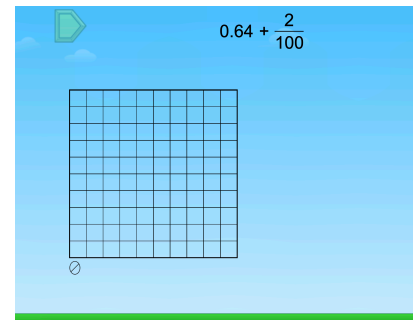
White boards and markers
Hundreds Grid Math Mat



- 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.

Directions

- 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?