Modeling Addition and Subtraction of Decimals

Adding decimals using a hundredths grid:

Add 0.32 + 0.17.

Step 1: Shade 32 squares to show 0.32.

Step 2: Use a different color. Shade 17 squares to show 0.17.

Step 3: Count all the squares that are shaded. How many hundredths are shaded in all? Write the decimal for the total shaded squares: 0.49.

So, 0.32 + 0.17 = 0.49.

Subtracting decimals using a hundredths grid:

Subtract 0.61 − 0.42.

Step 1: Shade 61 squares to show 0.61.

Step 2: Cross out 42 squares to show 0.42.

Step 3: Count the squares that are shaded but not crossed out. Write the decimal: 0.19.

So, 0.61 − 0.42 = 0.19.

Add or subtract. You may use hundredths grids to help.

1. 0.22 + 0.35 = 

2. 0.52 − 0.41 = 