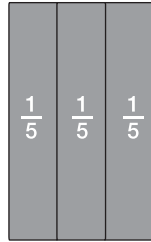
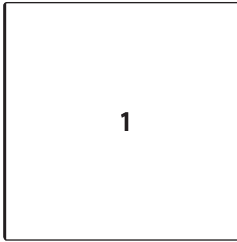


Use Fraction Squares to model each mixed number. Write a number sentence for the mixed number model. Write number sentences for the decimal and for the percent.

1.



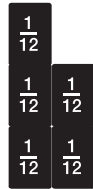
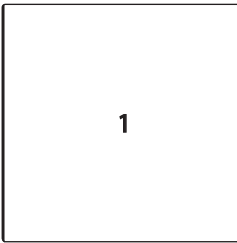
mixed number: \_\_\_\_\_

decimal: \_\_\_\_\_

percent: \_\_\_\_\_

Using Fraction Squares, model each number. Write number sentences for the mixed number, decimal, and percent.

2.

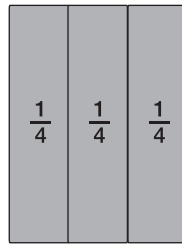
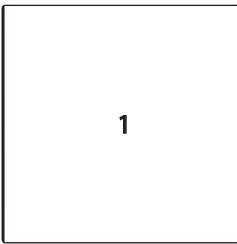


mixed number: \_\_\_\_\_

decimal: \_\_\_\_\_

percent: \_\_\_\_\_

3.



mixed number: \_\_\_\_\_

decimal: \_\_\_\_\_

percent: \_\_\_\_\_

Write each mixed number as a decimal and as a percent.

4.  $1\frac{1}{3}$

\_\_\_\_\_  
\_\_\_\_\_

5.  $1\frac{4}{5}$

\_\_\_\_\_  
\_\_\_\_\_

6.  $2\frac{1}{4}$

\_\_\_\_\_  
\_\_\_\_\_

7.  $1\frac{5}{6}$

\_\_\_\_\_  
\_\_\_\_\_

8.  $2\frac{2}{3}$

\_\_\_\_\_  
\_\_\_\_\_

9.  $1\frac{7}{8}$

\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_

**Challenge!** Compare the mixed numbers in Questions 1, 2, and 3. Write the numbers as decimals from greatest to least. Explain how you compared the numbers.

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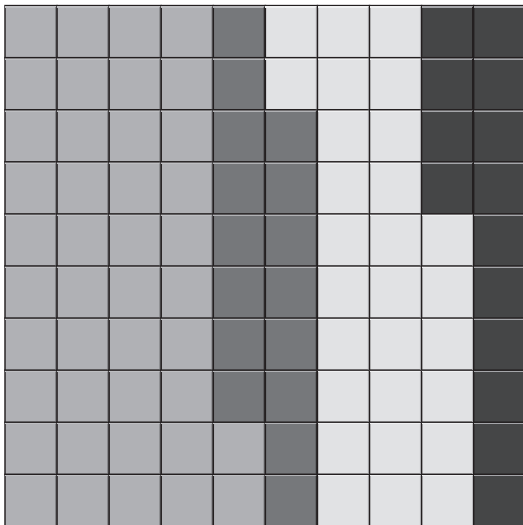
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Use Color Tiles in a  $10 \times 10$  array to model the fraction shown. Write the fraction for each color. Then write the decimal and percent for each color.

1.



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

Using Color Tiles, model a  $10 \times 10$  array for the fractions given. Sketch the model. Write the decimal and percent for each color.

2.

Red:  $\frac{35}{100}$  \_\_\_\_\_

Blue:  $\frac{12}{100}$  \_\_\_\_\_

Yellow:  $\frac{32}{100}$  \_\_\_\_\_

Green:  $\frac{21}{100}$  \_\_\_\_\_

Write each fraction as a decimal and as a percent.

3.  $\frac{18}{100}$

\_\_\_\_\_

4.  $\frac{33}{100}$

\_\_\_\_\_

5.  $\frac{72}{100}$

\_\_\_\_\_

6.  $\frac{25}{100}$

\_\_\_\_\_

7.  $\frac{16}{100}$

\_\_\_\_\_

8.  $\frac{40}{100}$

\_\_\_\_\_

Name \_\_\_\_\_

**Challenge!** Why can you use a  $10 \times 10$  array to convert a part of a total to a percent?

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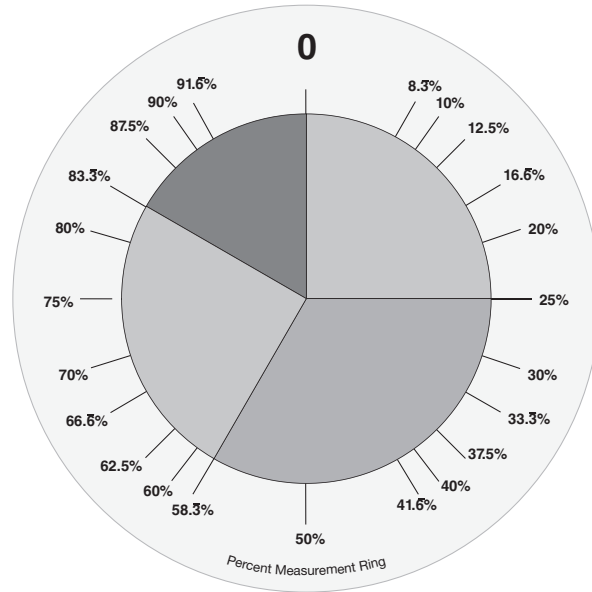
Use Fraction Circles and Fraction Circle Rings to model each percentage. Write the percent as a fraction.

1. 25% \_\_\_\_\_

33. $\bar{3}$ % \_\_\_\_\_

25% \_\_\_\_\_

16. $\bar{6}$ % \_\_\_\_\_



Using Fraction Circles and Fraction Circle Rings, model each percentage. Sketch the model. Write the percent as a fraction.

2. 20% \_\_\_\_\_

12.5% \_\_\_\_\_

37.5% \_\_\_\_\_

30% \_\_\_\_\_

Write each percent as a fraction.

3. 80%  
\_\_\_\_\_

4. 62.5%  
\_\_\_\_\_

5. 16. $\bar{6}$ %  
\_\_\_\_\_

6. 87.5%  
\_\_\_\_\_

7. 41. $\bar{6}$ %  
\_\_\_\_\_

8. 75%  
\_\_\_\_\_

Name \_\_\_\_\_

**Challenge!** What does the word *percent* mean? Explain how to get the numerator and decimal of a fraction equivalent to a given percent.

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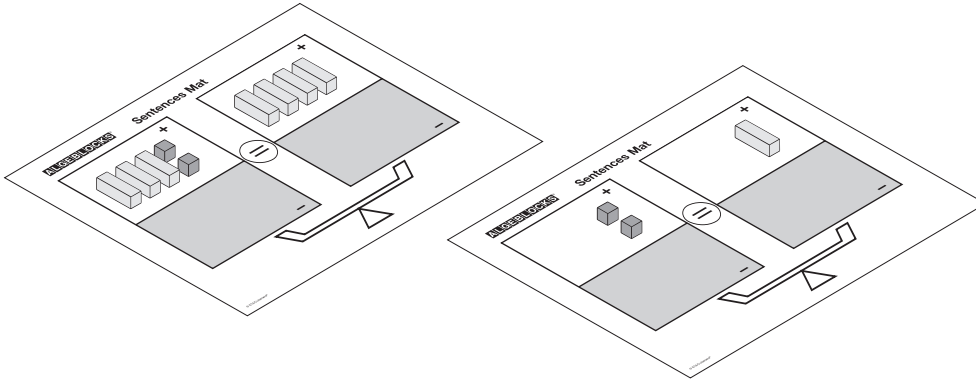
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Use Algeblocks and an Algeblocks Sentences Mat to model the equation shown and then solve it. Write the equation and the solution.

1.

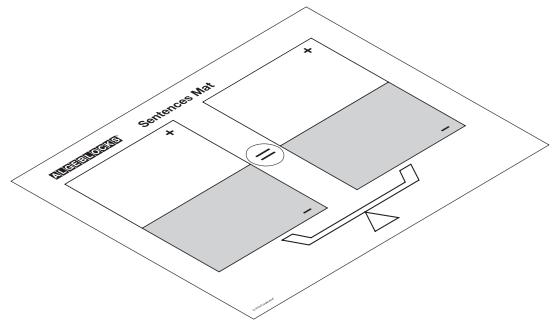
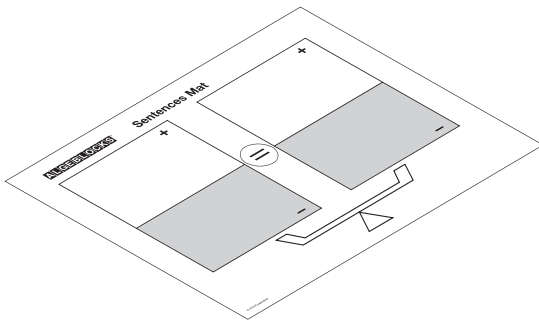


\_\_\_\_\_

Using Algeblocks and an Algeblocks Sentences Mat, model each equation. Sketch the model. Write each solution.

2.  $3x + 9 = 4x$

3.  $4x = 12 + 3x$



\_\_\_\_\_

\_\_\_\_\_

Find each solution.

4.  $x + 1 = 2x$

5.  $4x = 1 + 3x$

\_\_\_\_\_

\_\_\_\_\_

6.  $6x + 5 = 7x$

7.  $x + 6 = 2x$

\_\_\_\_\_

\_\_\_\_\_

8.  $10x = 9x + 9$

9.  $8x + 8 = 7x$

\_\_\_\_\_

\_\_\_\_\_

Name \_\_\_\_\_

**Challenge!** When solving an equation, how do you get both the variable terms on the same side of the equal sign? Explain.

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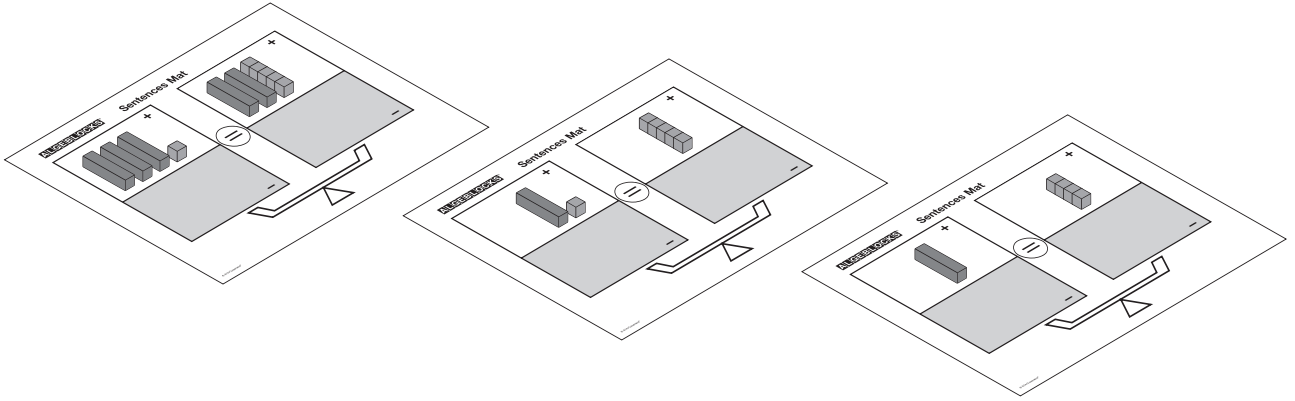
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Use Algeblocks and an Algeblocks Sentences Mat to model the equation shown. Write the equation. Write the equation after the first step and write the solution.

1.



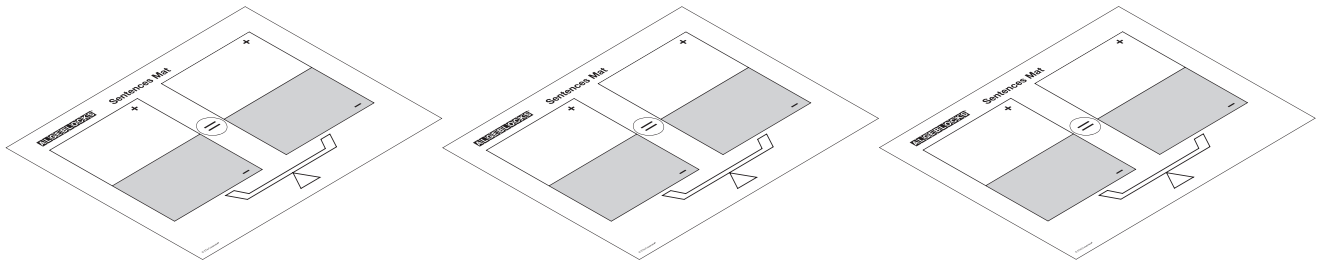
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Using Algeblocks and an Algeblocks Sentences Mat, model the equation. Sketch the model, the first step, and the solution.

2.  $2x + 9 = 13$



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Solve each equation.

3.  $4x + 10 = 9x$

\_\_\_\_\_

4.  $5x = 12 + x$

\_\_\_\_\_

5.  $6y + 10 = 8y$

\_\_\_\_\_

6.  $2x + 12 = 5x$

\_\_\_\_\_

7.  $10y = 6y + 8$

\_\_\_\_\_

8.  $4y + 3 = 7y$

\_\_\_\_\_

