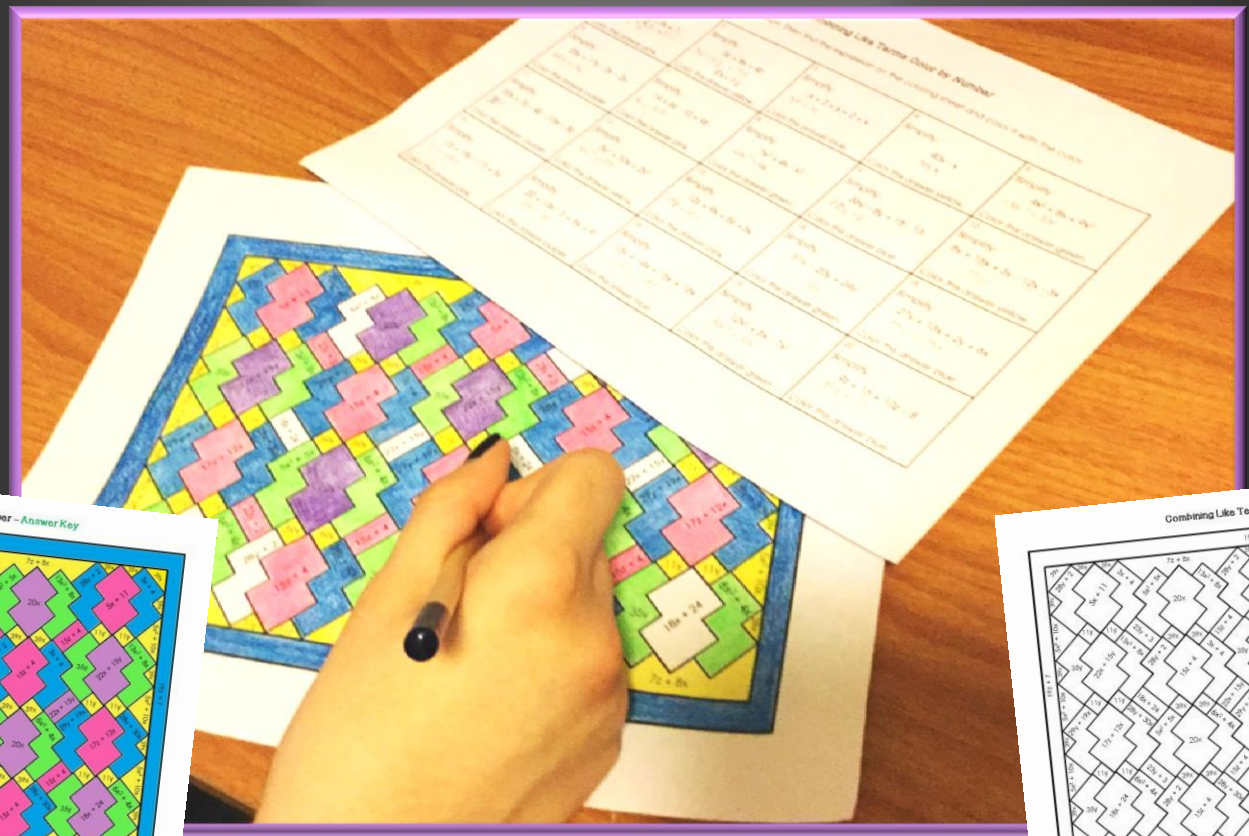
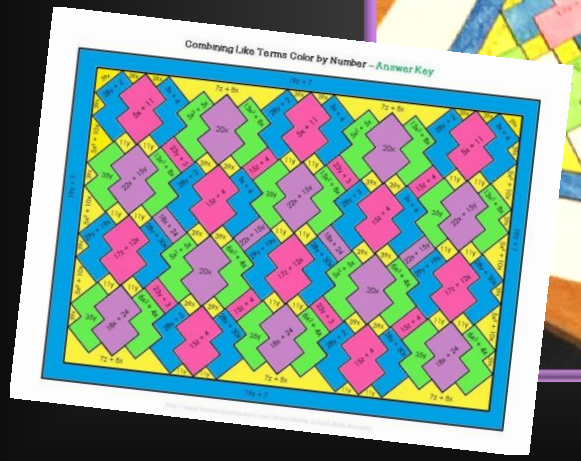
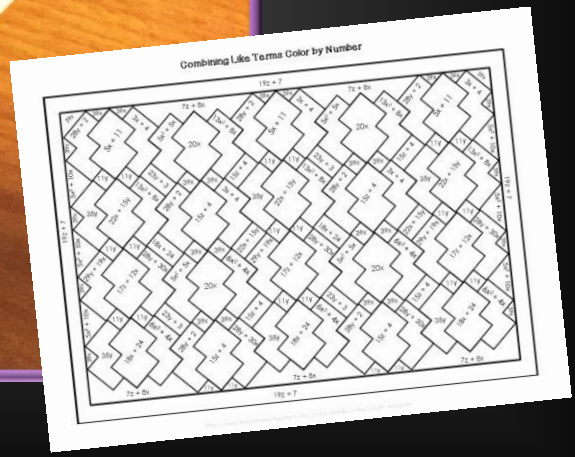
Grades 6-7

Combining Like Terms

Color by Number







Combining Like Terms Color by Number

Thanks for trying Combining Like Terms Color by Number!

In this activity, students combine the like terms in each expression given (there are 20).

Students find the simplified expression on the coloring page and color it with the color indicated in the box for that problem.

There is also a coloring page with no numbers, for students to color their own way.

Common Core Math Standards:
6.EE.A.3 Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression 3 (2 + x) to produce the equivalent expression 6 + 3x; apply the distributive property to the expression 24x + 18y to produce the equivalent expression 6 (4x + 3y); apply properties of operations to y + y + y to produce the equivalent expression 3y.

6.EE.A.4 Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). *For example, the expressions y + y + y and 3y are equivalent because they name the same number regardless of which number y stands for.*

7.EE.A.1 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.

If you have any questions at all, or would like a custom color by number for a particular topic, please email me at middleschoolmathmoments@gmail.com.

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Name _____

Combining Like Terms Color by Number

Directions: Simplify each expression. Then find the simplified expression on the coloring sheet and color it with the color given in the box.

1 Simplify: $3x + 4 + 2x + 7$ Color this answer pink.	2 Simplify: $3z + 8x + 4z$ Color this answer yellow.	3 Simplify: $x + 2 + x + 2 + x$ Color this answer blue.	4 Simplify: $40x - x$ Color this answer yellow.	5 Simplify: $4x^2 + 8x + 9x^2$ Color this answer green.
6 Simplify: $25x + 17y - 3x – 2y$ Color this answer purple.	7 Simplify: $14 + 6z - 10 + 9z$ Color this answer pink.	8 Simplify: $7x^2 + 4x - x^2$ Color this answer green.	9 Simplify: $36y – 8y + 15 - 13$ Color this answer blue.	10 Simplify: $8y + 15x + 3y - 12x - 3x$ Color this answer yellow.
11 Simplify: $35x + 7z – 4z – 15x – 3z$ Color this answer purple.	12 Simplify: $3x^2 + 10x + 2x^2$ Color this answer yellow.	13 Simplify: $12z + 9x + 5z + 3x$ Color this answer pink.	14 Simplify: $31y – 20y + 24y$ Color this answer green.	15 Simplify: $27y + 13x + 2y + 6x$ Color this answer blue.
16 Simplify: $16 + 18y – 13 + 5y$ Color this answer pink.	17 Simplify: $20 + 13x - 5 + 5x + 9$ Color this answer purple.	18 Simplify: $13y + 14x + 15y + 16x$ Color this answer blue.	19 Simplify: $12x^2 + 5x - 7x^2$ Color this answer green.	20 Simplify: $9z + 15 + 10z – 8$ Color this answer blue.

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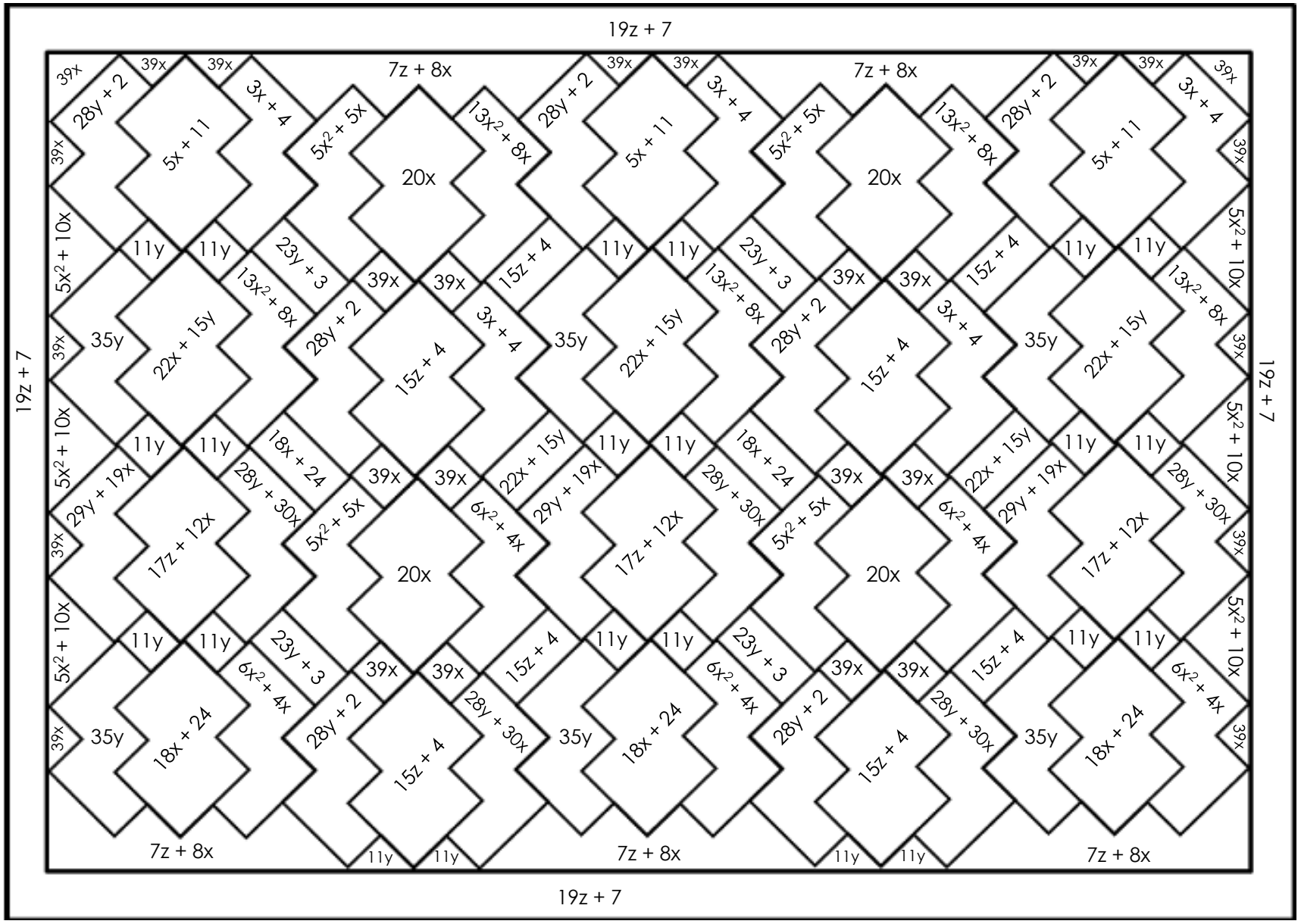
Combining Like Terms Color by Number



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Name _____

Combining Like Terms Color by Number - Key

Directions: Simplify each expression. Then find the simplified expression on the coloring sheet and color it with the color given in the box.

1 Simplify: $3x + 4 + 2x + 7$ **$5x + 11$** Color this answer pink.	2 Simplify: $3z + 8x + 4z$ **$7z + 8x$** Color this answer yellow.	3 Simplify: $x + 2 + x + 2 + x$ **$3x + 4$** Color this answer blue.	4 Simplify: $40x - x$ **$39x$** Color this answer yellow.	5 Simplify: $4x^2 + 8x + 9x^2$ **$13x^2 + 8x$** Color this answer green.
6 Simplify: $25x + 17y - 3x - 2y$ **$22x + 15y$** Color this answer purple.	7 Simplify: $14 + 6z - 10 + 9z$ **$15z + 4$** Color this answer pink.	8 Simplify: $7x^2 + 4x - x^2$ **$6x^2 + 4x$** Color this answer green.	9 Simplify: $36y - 8y + 15 - 13$ **$28y + 2$** Color this answer blue.	10 Simplify: $8y + 15x + 3y - 12x - 3x$ **$11y$** Color this answer yellow.
11 Simplify: $35 + 7z - 4z - 15x - 3z$ **$20x$** Color this answer purple.	12 Simplify: $3x^2 + 10x + 2x^2$ **$5x^2 + 10x$** Color this answer yellow.	13 Simplify: $12z + 9x + 5z + 3x$ **$17z + 12x$** Color this answer pink.	14 Simplify: $31y - 20y + 24y$ **$35y$** Color this answer green.	15 Simplify: $27y + 13x + 2y + 6x$ **$29y + 19x$** Color this answer blue.
16 Simplify: $16 + 18y - 13 + 5y$ **$23y + 3$** Color this answer pink.	17 Simplify: $20 + 13x - 5 + 5x + 9$ **$18x + 24$** Color this answer purple.	18 Simplify: $13y + 14x + 15y + 16x$ **$28y + 30x$** Color this answer blue.	19 Simplify: $12x^2 + 5x - 7x^2$ **$5x^2 + 5x$** Color this answer green.	20 Simplify: $9z + 15 + 10z - 8$ **$19z + 7$** Color this answer blue.

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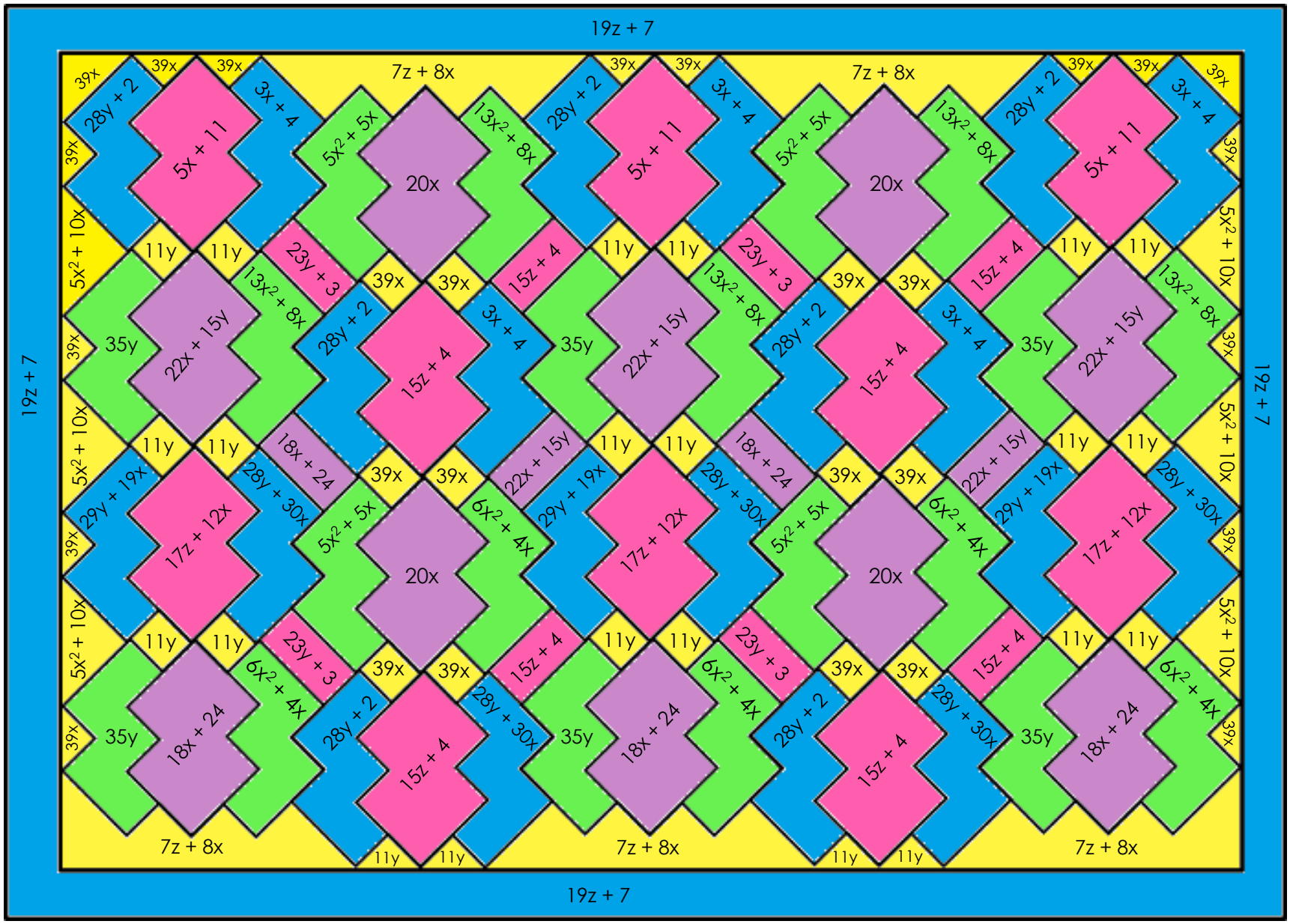
Combining Like Terms Color by Number – Answer Key



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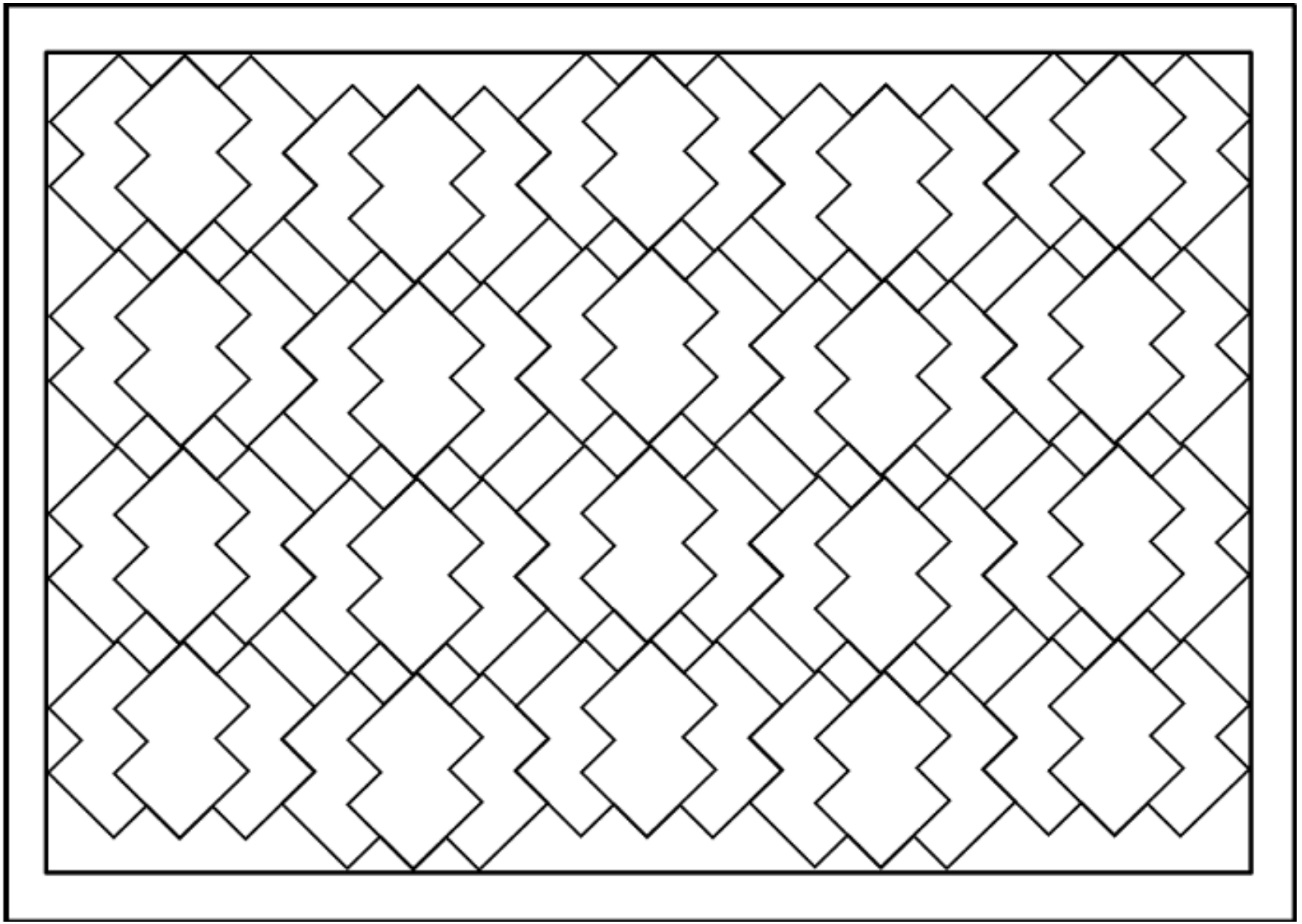

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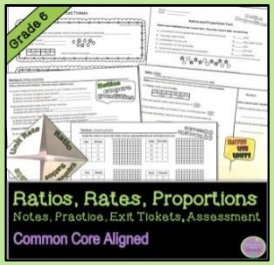

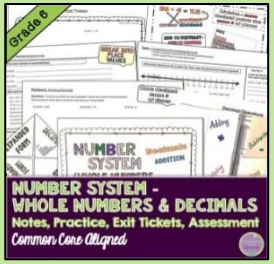

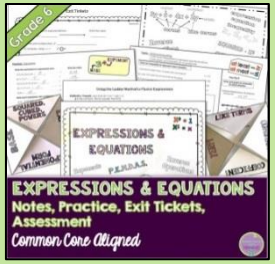

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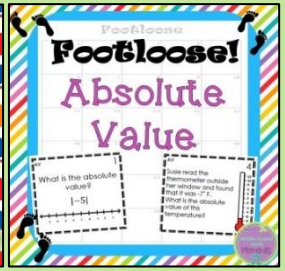

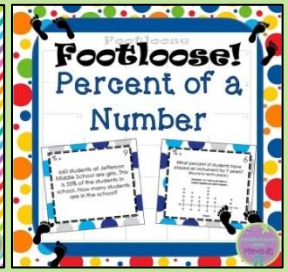

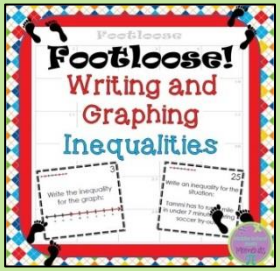

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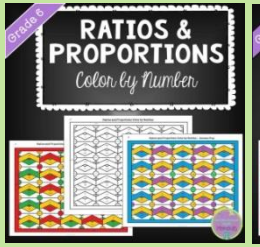

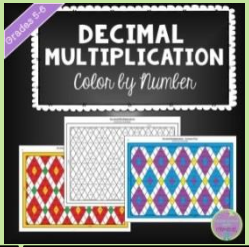

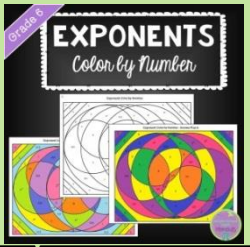

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