



# Simplifying Algebraic Expressions

Name \_\_\_\_\_

Score \_\_\_\_\_

SAE:10

Simplify each expression and tick the answer. Find the problem number on the coloring page and color each section with the appropriate color.

Q. No	Expressions	Answer 1	Answer 2	Answer 3
1)	$2x + 3 - 1 + 4x - 6$	$6x - 4$ Blue	$4 - 6x$ Purple	$-6x - 4$ Green
2)	$3(a - 4) - 2(2a + 3)$	$a - 18$ White	$-a + 18$ Red	$-a - 18$ Brown
3)	$7y^2 - y(3y + 7) + 2y$	$-4y^2 - 5y$ Black	$4y^2 - 5y$ Pink	$4y^2 + 5y$ Purple
4)	$m + 5n - 6m - n - m + 2n$	$-6m + 6n$ Red	$-6m - 6n$ Blue	$6m - 6n$ Yellow
5)	$k(8 - 2k) + k^2 - 8k$	$k^2$ Green	$-k^2$ Purple	$8k$ Pink
6)	$(y + z)^2 - (y - z)^2$	$-4yz$ Orange	$2yz$ Red	$4yz$ Yellow
7)	$6t + 5 - 7t - 9 - t + 1$	$-2t - 3$ Green	$2t + 3$ White	$-3t - 2$ Purple
8)	$4(g + h) + 2(3g - 4h)$	$4g - 10h$ Pink	$-10g - 4h$ Black	$10g - 4h$ Orange



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1)	$2x + 3 - 1 + 4x - 6$	$6x - 4$ ✓ Blue	$4 - 6x$ Purple	$-6x - 4$ Green
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3)	$7y^2 - y(3y + 7) + 2y$	$-4y^2 - 5y$ Black	$4y^2 - 5y$ ✓ Pink	$4y^2 + 5y$ Purple
4)	$m + 5n - 6m - n - m + 2n$	$-6m + 6n$ ✓ Red	$-6m - 6n$ Blue	$6m - 6n$ Yellow
5)	$k(8 - 2k) + k^2 - 8k$	$k^2$ Green	$-k^2$ ✓ Purple	$8k$ Pink
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8)	$4(g + h) + 2(3g - 4h)$	$4g - 10h$ Pink	$-10g - 4h$ Black	$10g - 4h$ ✓ Orange



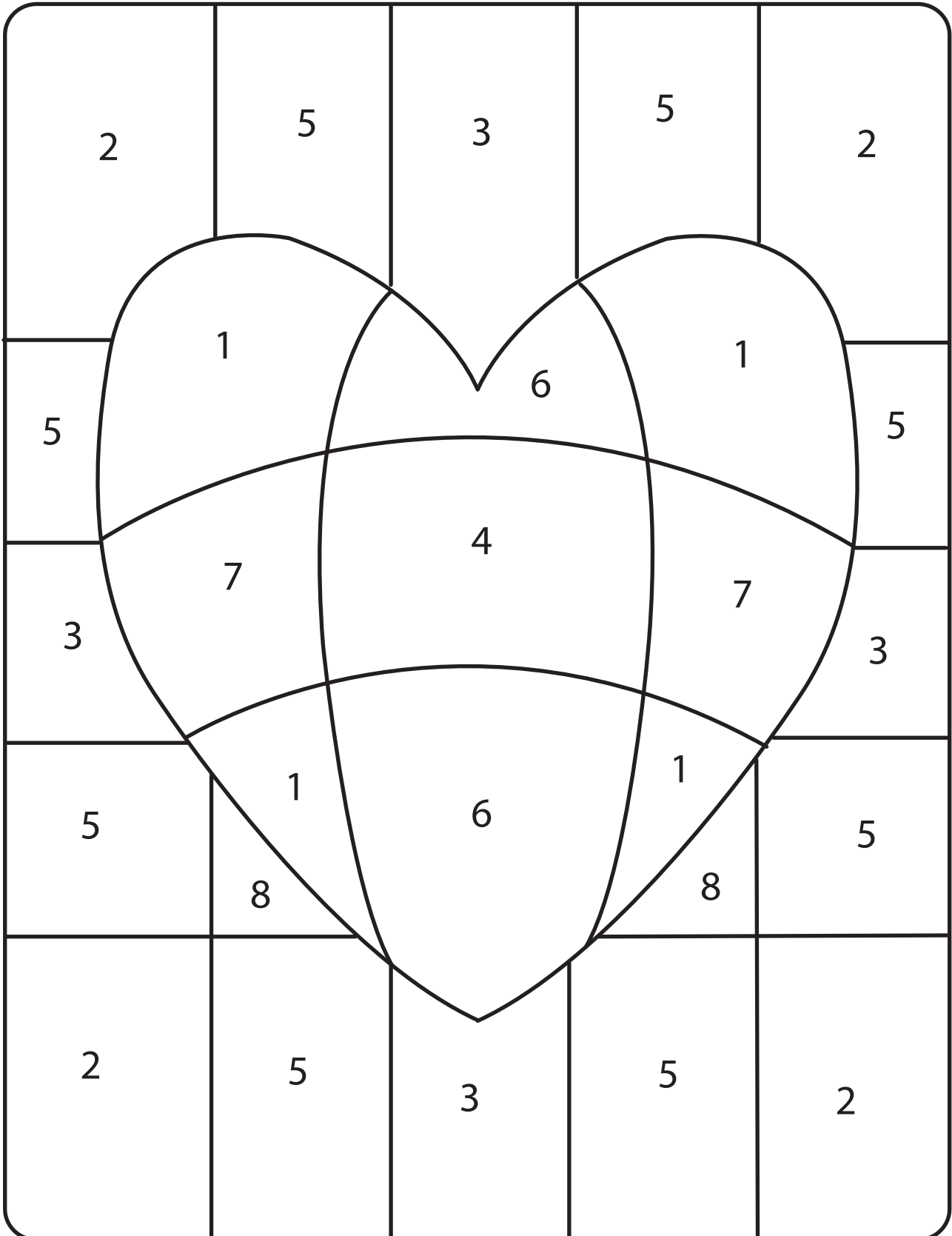
# Simplifying Algebraic Expressions

Name \_\_\_\_\_

Score \_\_\_\_\_

SAE:10a

Use the above question sheet to color the shape given below. The number in the diagram represents the question number on the previous page.





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Score \_\_\_\_\_

## Answer key

SAE:10a

Use the above question sheet to color the shape given below. The number in the diagram represents the question number on the previous page.

