Simplifying Algebraic Expressions

Name _____

Score _____

SAE:12

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)	$9g(1 - h) - g + 3h(g - 2) + h$	$6g - 5gh - 8h$ Blue	$8g - 6gh - 5h$ Pink	$5g - 8gh - 6h$ Green
2)	$5(3 + 2t) - 2(4t - 1)$	$2t + 17$ Purple	$t + 17$ White	$2t - 17$ Black
3)	$2a^2 - b^2 + 5b^2 - a^2$	$4a^2 + b^2$ Yellow	$a^2 + b^2$ Red	$a^2 + 4b^2$ Blue
4)	$p(p + 2) - p(7 - 2p)$	$3p^2 + 5p$ Orange	$5p^2 - 3p$ Purple	$3p^2 - 5p$ Green
5)	$z - 1 + 3z - 4 - 6z + 2$	$-2z - 3$ Yellow	$-3z - 2$ Grey	$3z - 2$ Brown
6)	$k(7 + 2k) + 2k(k - 1)$	$-4k^2 - 5k$ Pink	$4k^2 + 5k$ Brown	$5k^2 + 4k$ Blue
7)	$3(1 - d) - 2(d + 2) - 4(3 + d)$	$-9d - 13$ Red	$9d - 13$ White	$-9d + 13$ Purple
8)	$4n - 6 - n + 8n + 1 - 3$	$8n + 9$ Green	$11n - 9$ Yellow	$11n - 8$ Orange

Simplifying Algebraic Expressions

Answer key

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)	$9g(1 - h) - g + 3h(g - 2) + h$	$6g - 5gh - 8h$ Blue	$8g - 6gh - 5h$ ✓ Pink	$5g - 8gh - 6h$ Green
2)	$5(3 + 2t) - 2(4t - 1)$	$2t + 17$ ✓ Purple	$t + 17$ White	$2t - 17$ Black
3)	$2a^2 - b^2 + 5b^2 - a^2$	$4a^2 + b^2$ Yellow	$a^2 + b^2$ Red	$a^2 + 4b^2$ ✓ Blue
4)	$p(p + 2) - p(7 - 2p)$	$3p^2 + 5p$ Orange	$5p^2 - 3p$ Purple	$3p^2 - 5p$ ✓ Green
5)	$z - 1 + 3z - 4 - 6z + 2$	$-2z - 3$ ✓ Yellow	$-3z - 2$ Grey	$3z - 2$ Brown
6)	$k(7 + 2k) + 2k(k - 1)$	$-4k^2 - 5k$ Pink	$4k^2 + 5k$ ✓ Brown	$5k^2 + 4k$ Blue
7)	$3(1 - d) - 2(d + 2) - 4(3 + d)$	$-9d - 13$ ✓ Red	$9d - 13$ White	$-9d + 13$ Purple
8)	$4n - 6 - n + 8n + 1 - 3$	$8n + 9$ Green	$11n - 9$ Yellow	$11n - 8$ ✓ Orange

Simplifying Algebraic Expressions

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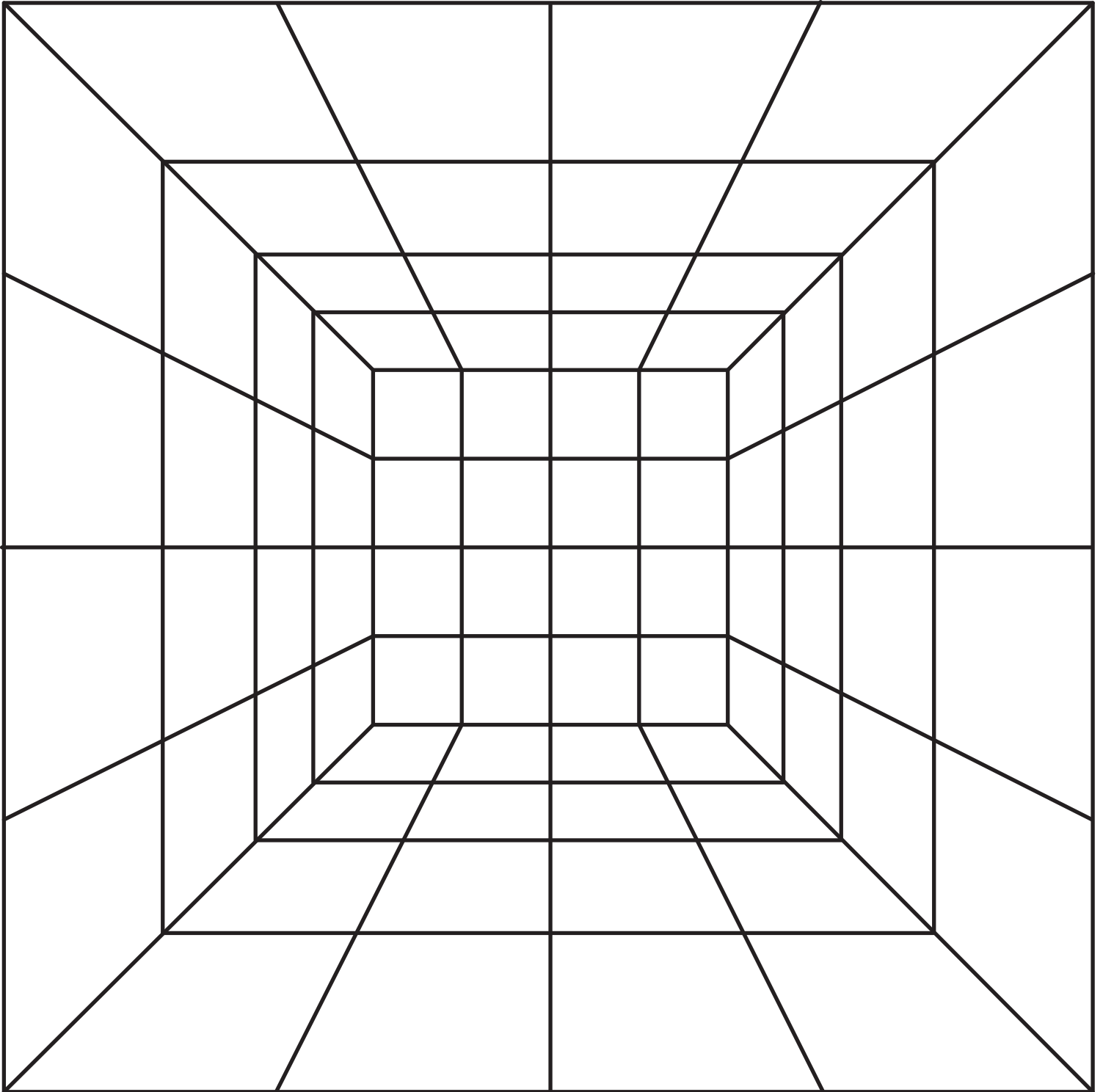
Simplifying Algebraic Expressions

Answer key

SAE:12b

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