

Identifying equivalent algebraic expressions

Name Date Score

For each expression, select **all** equivalent expressions from the list

- $24x - 18$
A. $6(4x - 3)$ B. 6 C. $4(6x - 4)$ D. $12x - 9$
- $x + x + x + x$
A. $4x$ B. $x + 4$ C. $2x + 2x$ D. $3x - x$
- $6x + 9y$
A. $6(x + 3y)$ B. $3(2x + 3y)$ C. $9x + 6y$ D. $6x - 9y$
- $10x - 15y$
A. $5x - 15y$ B. $10x + 15y$ C. $5(2x + 3y)$ D. $5(2x - 3y)$
- $7x^2 + 21$
A. $7x^2 - 21$ B. $x^2 + 21$ C. $7(x^2 + 3)$ D. $7x^2 + 1$
- $8x^2 + 2x$
A. $8x^2 + x$ B. $2x(4x + 1)$ C. $2(4x^2 + x)$ D. $8x^2 - 2x$
- $12xy + 15x$
A. $12xy - 15x$ B. $3x(4y + 5)$ C. $12yz + 15x$ D. $3x(5y + 4)$
- $9x + x^2$
A. $9x - x^2$ B. $x(9 + x)$ C. $x(9 - x)$ D. $9x^2 + x$
- $y + 3y + 2y$
A. $6y$ B. $y + 6$ C. $2y + 4y$ D. $6y - y$
- $4xyz + 5xy$
A. $5xyz + 4xy$ B. $xy(4z + 5)$ C. $x(4yz + 5y)$ D. $4xyz - 5xy$

Solutions

1. A
 2. A, C
 3. B
 4. D
 5. C
 6. B, C
 7. B
 8. B
 9. A, C
 10. B, C
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