

Combining Like Terms

Determine if the two expressions are equivalent.

1) $5x$ and $3x + 2x$

2) $8x$ and $2x + 3x$

3) $14x$ and $5x + 8x$

4) $8x + 7x$ and $15x$

5) $11c + 3$ and $3c + 8c + 3$

6) $23x$ and $7x + 9x + 6x$

7) $2m + 4m + 7m + 3n$ and $13m + 3n$

8) $2c + 6 + 6c + 4b$ and $4b + 8c + 6$

Combine the like terms to create an equivalent expression.

9) $5x + 4x$

10) $5x + 8x$

11) $8r + 6r + 8$

12) $4p + 7p + 6$

13) $7m + 2n + 2m$

14) $3c + 9b + 5b$

15) $3m + 9p + 2n + 5n + 9n$

16) $7 + 6z + 9 + 6 + 3z + 8z + 5z$

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Equivalent

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Not equivalent

3) $14x$ and $5x + 8x$

Not equivalent

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Not equivalent

7) $2m + 4m + 7m + 3n$ and $13m + 3n$

Equivalent

8) $2c + 6 + 6c + 4b$ and $4b + 8c + 6$

Equivalent

Combine the like terms to create an equivalent expression.

9) $5x + 4x$

 $9x$

10) $5x + 8x$

 $13x$

11) $8r + 6r + 8$

 $14r + 8$

12) $4p + 7p + 6$

 $11p + 6$

13) $7m + 2n + 2m$

 $9m + 2n$

14) $3c + 9b + 5b$

 $14b + 3c$

15) $3m + 9p + 2n + 5n + 9n$

 $3m + 16n + 9p$

16) $7 + 6z + 9 + 6 + 3z + 8z + 5z$

 $22z + 22$