

6.EE.A.3—Combining Like Terms

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1. $x + 8 + 3x + 7 =$ $4x + 15$
2. $x^2 + 3x^2 + 4x =$ $4x^2 + 4x$
3. $3(x + 2) + 9 =$ $3x + 6 + 9 = 3x + 15$
4. $1y^2 + 4y + 5y^2 + y =$ $6y^2 + 5y$
5. $3xy + 3x + 4y + 1y + x =$ $3xy + 4x + 5y$
6. $2 + 3(x + 7) =$ $2 + 3x + 21 = 3x + 23$
 $\begin{array}{|c|c|} \hline 3 & \begin{array}{c} x+7 \\ 3x+21 \end{array} \\ \hline \end{array}$

6.EE.A.3, 6.EE.A.4—Equivalent Expressions

1. Which expression(s) are equivalent to $3(x^2 + 4)$? Circle all that apply.

- a.) ~~$3x^2 + 4$~~
- b.) ~~$3 \cdot x^2 + 3$~~
- c.) $3x^2 + 12$
- d.) ~~$3x^2 + 7$~~
- e.) $3 \cdot x^2 + 3 \cdot 4$

$3x^2 + 12$

$\begin{array}{|c|c|} \hline x^2+4 & \\ \hline 3 & 3x^2+12 \\ \hline \end{array}$
 $3x^2 + 12$

2. Which expression(s) are equivalent to $2x^2 + 5y^2 + 4x^2$? Circle all that apply.

- a.) $6x^2 + 5y^2$
- b.) ~~$8x^2 + 5y$~~
- c.) ~~$8x^2 + 5y^2$~~
- d.) $5y^2 + 6x^2$
- e.) ~~$11xy$~~

$6x^2 + 5y^2$