Identifying Equivalent Linear Expressions

Directions: Circle each of the expressions that are equivalent to the given expression. There may be more than one equivalent expression in each box.

1. $12k + 8$

$8(2k + 1)$ $\qquad$ $8 + 12k$

$4(3k + 2)$ $\qquad$ $2(6k + 4)$

2. $15n - 5$

$-5 + 15n$ $\qquad$ $15n + 5$

$-5(1 - 3n)$ $\qquad$ $5(3n - 1)$

3. $13c + 8 - 5c$

$8(c + 1)$ $\qquad$ $-8(c - 1)$

$-18c + 8$ $\qquad$ $8c - 8$

4. $2(2v - 9)$

$4v - 9$ $\qquad$ $-18 + 4v$

$4v + 18$ $\qquad$ $-2(9 - 2v)$

5. $4x - 12y + 6x$

$-2xy$ $\qquad$ $10x - 12y$

$12y + 10x$ $\qquad$ $2(5x - 6y)$

6. $4 + 5(3d - 6)$

$4 + 15(d - 2)$ $\qquad$ $4 + 15d - 6$

$15d - 26$ $\qquad$ $5(3d - 6) + 4$

7. $-5(3m + 4) - 3m$

$-3m - 5(3m + 4)$ $\qquad$ $-18m - 20$

$-12m - 20$ $\qquad$ $-15m - 4 - 3m$

8. $-9g + 6(g + 4h)$

$-3(g + 8h)$ $\qquad$ $-15g + 24h$

$3(2g + 8h) - 9g$ $\qquad$ $6(g - 4h) - 9g$

9. $7(2q - 4) + 8r + 5$

$14(q - 2) + 5 + 8r$ $\qquad$ $14q - 23 + 8r$

$8r + 5 + 7(2q - 4)$ $\qquad$ $8r + 14q - 28$

10. $6j - 2k + 8$

$12jk + 8$ $\qquad$ $8 - 2k + 6j$

$2(3j - k + 4)$ $\qquad$ $-2(-4 - 3j + k)$