

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.

$$12k + 8$$

$$8(2k + 1)$$

$$8 + 12k$$

$$4(3k + 2)$$

$$2(6k + 4)$$

2.

$$15n - 5$$

$$-5 + 15n$$

$$15n + 5$$

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

$$5(3n - 1)$$

3.

$$13c + 8 - 5c$$

$$8(c + 1)$$

$$-8(c - 1)$$

$$-18c + 8$$

$$8c - 8$$

4.

$$2(2v - 9)$$

$$4v - 9$$

$$-18 + 4v$$

$$4v + 18$$

$$-2(9 - 2v)$$

5.

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

$$-2xy$$

$$10x - 12y$$

$$12y + 10x$$

$$2(5x - 6y)$$

6.

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

$$4 + 15(d - 2)$$

$$4 + 15d - 6$$

$$15d - 26$$

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

7.

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

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

$$-18m - 20$$

$$-12m - 20$$

$$-15m - 4 - 3m$$

8.

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

$$-3(g + 8h)$$

$$-15g + 24h$$

$$3(2g + 8h) - 9g$$

$$6(g - 4h) - 9g$$

9.

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

$$14(q - 2) + 5 + 8r$$

$$14q - 23 + 8r$$

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

$$8r + 14q - 28$$

10.

$$6j - 2k + 8$$

$$12jk + 8$$

$$8 - 2k + 6j$$

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

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