

1. **Simplify** the following expressions:

A. $2(-8x + 12y) =$

B. $-2(-8x + 12y) =$

C. $7(3m - 4) =$

2. **Factor** the following expressions:

A. $6a - 18 =$

B. $8x + 12 =$

C. $-5m - 25 =$

2. Lin missed math class on the day they worked on expanding and factoring. Kiran is helping Lin catch up. Lin asks Kiran to help her factor the expression $-4y + 20w$. In at least two sentences, describe how can Kiran use this example to help Lin understand factoring?

3. Complete the equation with numbers that makes the expression on the right side of the equal sign equivalent to the expression on the left side.

$$75a + 25b = \underline{\quad} (\underline{\quad} a + b)$$

4. Identify the property shown in each of the following examples. (From Lesson 7.6.0, Properties of Operations)

A. $-3(2x - 1) = -6x + 3$ _____

B. $2 + c = c + 2$ _____

C. $3(2c) = (3 \cdot 2)c$ _____

D. $-2 + (4 + x) = (-2 + 4) + x$ _____

E. $m = m + 6 - 6$ _____

F. $(-5 + h) \cdot 2 = 2(-5 + h)$ _____

G. $1t = t$ _____