

## Factoring Expressions Worksheets

Evaluate each of the expressions below.

a)  $6x + 21y$  and  $3(2x + 7y)$        $x = 3$  and  $y = 4$

b)  $5g + 7g$  and  $g(5 + 7)$        $g = 6$

c)  $14x + 2$  and  $2(7x + 1)$        $x = 10$

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a)  $6x + 21y$  and  $3(2x + 7y)$        $x = 3$  and  $y = 4$

$$6(3) + 21(4) \quad 3(2 \cdot 3 + 7 \cdot 4)$$

$$18 + 84 \quad 3(6 + 28)$$

$$102 \quad 3(34)$$

$$102 \quad 102$$

b)  $5g + 7g$  and  $g(5 + 7)$        $g = 6$

$$5(6) + 7(6) \quad 6(5 + 7)$$

$$30 + 42 \quad 6(12)$$

$$72 \quad 72$$

c)  $14x + 2$  and  $2(7x + 1)$        $x = 10$

$$14(10) + 2 \quad 2(7 \cdot 10 + 1)$$

$$140 + 2 \quad 2(70 + 1)$$

$$142 \quad 2(71)$$

$$142 \quad 142$$