

The Distributive Law Practice

Name: _____

Date: _____

Question 1

Distribute

I. $4(1 + x)$

II. $10(9x - 6)$

III. $(x + y)^2$

IV. $6(x + y + 2)$

V. $4(5x + 3y + 8)$

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Question 2

Factor

I. $2x + 2y$

II. $5x + 15y - 10$

III. $32x + 2$

IV. $7x - 35y$

V. $3 + 27x + 6y$

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Name: _____ **Key** _____

Date: _____

Question 1

Distribute

I. $4(1 + x)$
 $4 + 4x$

II. $10(9x - 6)$
 $90x - 60$

III. $(x + y)2$
 $2x + 2y$

IV. $6(x + y + 2)$
 $6x + 6y + 12$

V. $4(5x + 3y + 8)$
 $20x + 12y + 32$

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Question 2

Factor

I. $2x + 2y$
 $\frac{(2x + 2y)}{2} \rightarrow 2(x + y)$



II. $5x + 15y - 10$
 $\frac{(5x + 15y - 10)}{5} \rightarrow 5(x + 3y - 2)$



III. $32x + 2$
 $\frac{(32x + 2)}{2} \rightarrow 2(16x + 1)$



IV. $7x - 35y$
 $\frac{(7x - 35y)}{7} \rightarrow 7(x - 5y)$



V. $3 + 27x + 6y$
 $\frac{(3 + 27x + 6y)}{3} \rightarrow 3(1 + 9x + 2y)$

