Name _____ Date _____

Introduction to Factoring

I used the distributive property below. Find the missing number that I distributed to get my answer.

1) $?\,(x+6)$

$3x+18$

2) $?\,(m+8)$

$9m+72$

3) $?\,(g-4)$

$4g-16$

4) $?\,(2x+3)$

$16x+24$

5) $?\,(5n-7)$

$40n-56$

6) $?\,(3d+4)$

$9d+12$

I used the distributive property below. Find the missing number that I distributed to get my answer.

1) $3x+21$

$?\,(x+7)$

2) $4t-44$

$?\,(t-11)$

3) $5h-60$

$?\,(h-12)$

4) $22x+33$

$?\,(2x+3)$

5) $30x-42$

$?\,(5x-7)$

6) $32x+72$

$?\,(4x+9)$

I used the distributive property below. Find the missing values that go in the parentheses.

1) $4(\quad + \quad)$

$4x + 8$

2) $5(\quad - \quad)$

$5m - 45$

3) $7(\quad + \quad)$

$7g + 21$

4) $3(\quad + \quad)$

$6k + 9$

5) $2(\quad + \quad)$

$8p + 14$

6) $9(\quad - \quad)$

$63g - 54$

I used the distributive property below. Find the missing values that go in the parentheses.

1) $7x + 28$

$7(\quad + \quad)$

2) $9x - 81$

$9(\quad - \quad)$

3) $12x + 72$

$12(\quad + \quad)$

4) $14x + 56$

$7(\quad + \quad)$

5) $28x + 8$

$4(\quad + \quad)$

6) $27x + 36$

$3(\quad + \quad)$

Write the expression that I had to distribute to get each result.

1) $5x + 30$

$(\quad + \quad)$

2) $3x - 15$

$(\quad - \quad)$

3) $8x + 56$

$(\quad + \quad)$

4) $10x - 6$

$(\quad - \quad)$

5) $12x + 8$

$(\quad + \quad)$

6) $9x + 36$

$(\quad + \quad)$

7) $20x + 5$

$(\quad + \quad)$

8) $6x - 16$

$(\quad - \quad)$

9) $24x - 12$

$(\quad - \quad)$

10) $16x - 8$

$(\quad - \quad)$

11) $15x + 10$

$(\quad + \quad)$

12) $9x + 81$

$(\quad + \quad)$

Find the GCF. Use the GCF to factor each expression.

1) $6x + 30$

GCF of 6 and 30: _____

(+)

2) $30x - 15$

GCF of 30 and 15: _____

(−)

3) $7x + 56$

GCF of 7 and 56: _____

(+)

4) $18x - 12$

GCF of 18 and 12: _____

(−)

5) $12x + 8$

GCF of 12 and 8: _____

(+)

6) $18x + 36$

GCF of 18 and 36: _____

(+)

7) $20x + 55$

GCF of 20 and 55: _____

(+)

8) $18x - 16$

GCF of 18 and 16: _____

(−)

9) $30x - 12$

GCF of 30 and 12: _____

(−)

10) $45x - 72$

GCF of 45 and 72: _____

(−)

11) $28x + 35$

GCF of 28 and 35: _____

(+)

12) $8x + 24$

GCF of 8 and 24: _____

(+)