


Name _____

Date _____

Introduction to Factoring

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

1)  $?(x + 6)$

$$3x + 18$$

$$? = \boxed{3}$$

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) $3x + 21$

 $?(x + 7)$

$$? = \boxed{3}$$

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.

$$1) \quad 4(\underline{x} + \underline{2})$$
$$= 4x + 8$$

4 times what is $4x$? x

4 times what is 8 ? 2

$$2) \quad 5(\quad - \quad)$$
$$5m - 45$$

$$3) \quad 7(\quad + \quad)$$
$$7g + 21$$

$$4) \quad 3(\quad + \quad)$$
$$6k + 9$$

$$5) \quad 2(\quad + \quad)$$
$$8p + 14$$

$$6) \quad 9(\quad - \quad)$$
$$63g - 54$$

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

$$1) \quad 7x + 28$$
$$7(\underline{x} + \underline{4})$$

7 times what is $7x$? x

7 times what is 28 ? 4

$$2) \quad 9x - 81$$
$$9(\quad - \quad)$$

$$3) \quad 12x + 72$$
$$12(\quad + \quad)$$

$$4) \quad 14x + 56$$
$$7(\quad + \quad)$$

$$5) \quad 28x + 8$$
$$4(\quad + \quad)$$

$$6) \quad 27x + 36$$
$$3(\quad + \quad)$$

Name AKey

Date _____

Introduction to Factoring

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

$$1) \overset{3}{\curvearrowright} ?(x+6)$$

$$3x + 18$$

$$? = \boxed{3}$$

$$2) \overset{9}{\curvearrowright} ?(m+8)$$

$$9m + 72$$

$$? = \boxed{9}$$

$$3) \overset{4}{\curvearrowright} ?(g-4)$$

$$4g - 16$$

$$? = \boxed{4}$$

$$4) \overset{8}{\curvearrowright} ?(2x+3)$$

$$16x + 24$$

$$\boxed{8}$$

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

$$40n - 56$$

$$\boxed{8}$$

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

$$9d + 12$$

$$\boxed{3}$$

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

$$1) 3x + 21$$

$$\overset{3}{\curvearrowright} ?(x+7)$$

$$? = \boxed{3}$$

$$2) \begin{array}{l} 4t - 44 \\ \div 4 \quad \div 4 \\ \hline ?(t-11) \end{array}$$

$$= \boxed{4}$$

$$3) 5h - 60$$

$$?(h-12)$$

$$\boxed{5}$$

$$4) 22x + 33$$

$$?(2x+3)$$

$$\boxed{11}$$

$$5) 30x - 42$$

$$?(5x-7)$$

$$\boxed{6}$$

$$6) 32x + 72$$

$$?(4x+9)$$

$$\boxed{8}$$

Key

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

$$1) \begin{array}{l} \overbrace{4(x+2)} \\ \vdots \quad \vdots \\ 4x + 8 \end{array}$$

$$2) \begin{array}{l} 5(m-9) \\ 5m - 45 \end{array}$$

$$3) \begin{array}{l} 7(g+3) \\ 7g + 21 \end{array}$$

4 times what is $4x$? (x)

4 times what is 8 ? (2)

$$4) \begin{array}{l} 3(2k+3) \\ 6k + 9 \end{array}$$

$$5) \begin{array}{l} 2(4p+7) \\ 8p + 14 \end{array}$$

$$6) \begin{array}{l} 9(7g-6) \\ 63g - 54 \end{array}$$

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

$$1) \begin{array}{l} 7x + 28 \\ \overbrace{7(x+4)} \\ \vdots \quad \vdots \end{array}$$

$$2) \begin{array}{l} 9x - 81 \\ 9(x - 9) \end{array}$$

$$3) \begin{array}{l} 12x + 72 \\ 12(x + 6) \end{array}$$

7 times what is $7x$? x

7 times what is 28 ? 4

$$4) \begin{array}{l} 14x + 56 \\ 7(2x + 8) \end{array}$$

$$5) \begin{array}{l} 28x + 8 \\ 4(7x + 2) \end{array}$$

$$6) \begin{array}{l} 27x + 36 \\ 3(9x + 12) \end{array}$$