

$$ax^2 + bx + c$$

Kuta Software - Infinite Algebra 1

Name _____

Factoring Trinomials ($a=1$)

Date _____ Period _____

Factor each completely.

1) $b^2 + 8b + 7$

$$(b+7)(b+1)$$

$$\begin{array}{r} 7 \\ \hline 7 \cdot 1 \\ -7 \cdot -1 \end{array}$$

2) $n^2 - 11n + 10$

$$(n-10)(n-1)$$

$$\begin{array}{r} 10 \\ \hline 2 \cdot 5 \\ 10 \cdot 1 \\ -2 \cdot -5 \\ -10 \cdot -1 \end{array}$$

3) $m^2 + m - 90$

$$(m+10)(m-9)$$

$$\begin{array}{r} -90 \\ \hline 10 \cdot -9 \end{array}$$

4) $n^2 + 4n - 12$

$$(n+6)(n-2)$$

5) $n^2 - 10n + 9$

$$(n-9)(n-1)$$

6) $b^2 + 16b + 64$

$$(b+8)(b+8)$$

7) $m^2 + 2m - 24$

$$(m-4)(m+6)$$

8) $x^2 - 4x + 24$

Prime

9) $k^2 - 13k + 40$

$$(k-5)(k-8)$$

10) $a^2 + 11a + 18$

$$(a+9)(a+2)$$

11) $n^2 - n - 56$

$$(n-8)(n+7)$$

12) $n^2 - 5n + 6$

$$(n-2)(n-3)$$

1
2
3
5
7
11
13
17
19
23