

Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Factoring Quadratic Trinomials in the Form $ax^2 + bx + c$,
where $a = 1$

A. Solve and write your solution on the space provided for each item.

Factor each polynomial completely.

1. $x^2 + 12x + 27$

2. $x^2 - 13x + 36$

Factor each trinomial.

3. $x^2 - 13x - 48$

4. $x^2 - 11x + 18$

5. Find all possible values of k so that $x^2 + kx + 48$ is factorable.

6. Factor $x^2 + 4x + 5$, if possible.

- B. For items 7-10, solve for the dimensions of a box in which the volume is equal to $(3x^3 + 3x^2 + 36x)$ cubic units.

