

Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Factoring Perfect Square Trinomials

A. Choose the letter of the correct answer.

1. Which of the following is a perfect square trinomial?

- | | |
|-------------------------|-------------------------|
| a. $x^2 + 8xy + 4y^2$ | c. $4x^2 - 26xy + 9y^2$ |
| b. $4x^2 - 12xy + 9y^2$ | d. $x^2 + 12xy - 36y^2$ |

2. Which of the following is a perfect square trinomial?

- | | |
|-----------------------|-------------------------|
| a. $x^2 + 6xy + 9y^2$ | c. $4x^2 + 8xy - 16y^2$ |
| b. $4x^2 + 8xy - y^2$ | d. $x^2 + 18xy + 81y^2$ |

B. Identify which items are perfect square trinomial by putting a check (✓) on the blank before the number otherwise put an (x).

_____ 1. $a^2 - 121$

_____ 4. $25p^2 - 60pq + 27w^6$

_____ 2. $a^2 - 22a + 121$

_____ 5. $r^2 - 9s^6$

_____ 3. $j^2 - 12j^3 - 36$

_____ 6. $a^2 + 6a + 9$

C. Factor each item.

1. $p^2 + 18p + 81$

2. $45a^2 + 120ab + 80b^2$