

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PER. \_\_\_\_\_

**FACTORING TRINOMIALS – Day 1**

Factor each trinomial completely.

1.  $x^2 + 7x + 12 =$  \_\_\_\_\_

S =

P =


2.  $4x^2 + 56x + 160 =$  \_\_\_\_\_

S =

P =


3.  $x^2 + 5x - 24 =$  \_\_\_\_\_

S =

P =


4.  $x^2 + 3x - 18 =$  \_\_\_\_\_

S =

P =


5.  $x^2 - 12x + 35 =$  \_\_\_\_\_

S =

P =


6.  $4x^3 + 2x^2 - 42x =$  \_\_\_\_\_

S =

P =


7.  $2x^2 - 5x - 12 =$  \_\_\_\_\_

S =

P =

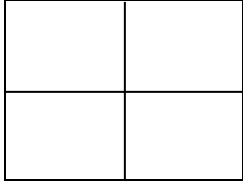

8.  $7x^2 + 22x + 3 =$  \_\_\_\_\_

S =

P =

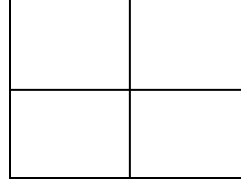

9.  $6x^2 - 19x + 10 =$  \_\_\_\_\_

S =  
P =



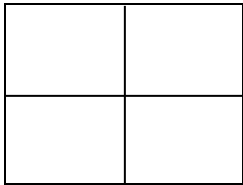
10.  $9x^2 - 12x - 12 =$  \_\_\_\_\_

S =  
P =



11.  $2x^2 + 11x - 13 =$  \_\_\_\_\_

S =  
P =



12.  $4x^3 + 22x^2 + 30x =$  \_\_\_\_\_

S =  
P =



13. Which expression is equivalent to  $4x^2 + 8x + 3$ ?

- A.  $(2x + 3)(2x + 1)$
- B.  $(x + 1)(4x + 3)$
- C.  $(2x - 3)(2x - 1)$
- D.  $(x - 1)(4x - 3)$

**Review. Show all appropriate work.**

14. Simplify  $(4x^2y^2)^3(2xy^3)^2$

15. What is the area of the figure shown?

