

**Factoring work sheet**

**Name:** .....

**Please show all your work**

**Period:** .....

**A- Factor out the GCF.**

1.  $2X^2y + 10XY$

2.  $3S^3t^2 - 9St^2 + 18S^2t^3$

**B-Factor by grouping.**

3.  $3wd + zw + 9zd + 3Z$

4.  $12Y^3 + 2Y^2 - 30Y - 5$

**C- Factor trinomials by grouping ("sum and product") Find a,b, and C, then find  $a*c = \#$  , then do your table. Then, find two factors who sum =b . finally eliminate the middle term and write 2 terms, then factor out GCF, lastly factor out the same prances.**

5.  $x^2 - 3x - 70$

6.  $2x^2 + 11x + 15$

**D- Factor the specials.**

7.  $9x^2 - 64$

8.  $4x^2 - 28x + 49$  .

9.  $4S^2 - 1$

