

Complete each part on the designated day in your Study Guide Packet.

Problems must be written out, numbered, show work, and have final answer boxed for credit.

**Part 5**

Factor the following:

1.  $10a^2 + 40a$

2.  $15wx - 35wx^2$

3.  $27a^2b + 9b^3$

4.  $11x + 44x^2y$

5.  $16y^2 + 8y$

6.  $14mn^2 + 2mn$

7.  $25a^2b^2 + 30ab^3$

8.  $2m^3n^2 - 16mn^2 + 8mn$

9.  $2ax + 6xc + ba + 3bc$

10.  $6mx - 4m + 3rx - 2r$

11.  $3ax - 6bx + 8b - 4a$

12.  $a^2 - 2ab + a - 2b$

13.  $8ac - 2ad + 4bc - bd$

14.  $2e^2g + 2fg + 4e^2h + 4fh$

15.  $x^2 - xy - xy + y^2$