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 1**

1. $4x^{3}∙2x^{3}$
2. $\frac{x^{4}}{x^{7}}$
3. $(2y)^{0}$
4. $(y^{4})^{3}$
5. $(x^{2}y)^{4}$
6. $\left(2cd^{4}\right)^{2}(cd)^{5}$
7. $\frac{x^{-4}}{x^{-9}}$
8. $\frac{3x^{2}y^{-3}}{12x^{6}y^{3}}$
9. $(2x^{3}y^{-3})^{-2}$
10. $(\frac{-7a^{2}b^{3}c^{0}}{3a^{3}b^{4}c^{3}})^{-4}$