Complete the packet by working each question. Correct your packet using the answer key posted on class website [www.nshsdolan.weebly.com](http://www.nshsdolan.weebly.com)

If a question is incorrect, go back and try to find your mistake. Make your life easier by showing all your steps!

Simplifying Expressions and Solving Equations:

Order of Operations, Combining Like Terms, Exponent Properties

1. Find the value of each expression:

a.) 9 – 2 ⋅ 3 b.) (6 + 3) ⋅ 4

c.) –6 – (–80) d.) (–5)2

2. Simplify each expression.

a.) 6x + 3y – y + 2x b.) c(4c + d)

c.) 3⋅4t⋅5t d.) 6c – (–2c)2

e.) 5(2x + 1) – 3x + 7 f.) 4y – (7y – 3)

g.) (–3m4n)(2m5n2) h.) (2x2y3)2

3. Simplify each expression. Write your answer without negative exponents.

a.)  b.) 

c.)  d.) 

e.)  f.) 

4. Solve each equation. Check your solution.

a.) 5x – 9 = -24 b.) 3(x – 7) = –21

Check: Check:

5. Solve each equation. Check your solution.

a.) 3x + 2 = x – 10 Check:

b.) 6(2x –3) + 4 = 16 Check:

c.)  Check:

6. Simplify each radical expression.

a.  b. 

c.  d. 

e.  f. 