Math-2A   Name_____ ID: 1
SM2a HW #2-5 (Powers Part 2)   Date_____ Period____

1) What are the three parts that make up a
power?

2) Convert the following into a power:
x*x*x*x*x*x*x

3) Convert the following into a power:
3*x*x*x*x

4) Convert the following power into repeated
multiplication: m^3

5) Convert the following power into repeated
multiplication: $4 n^5$

6) Rewrite an equivalent version of the
following without parentheses. $(x + 3)^2$

Simplify.

7) $a^3 b^2 \cdot -3a$

8) $x^3 \cdot 3x^3 y^3$

9) $\left(yx^3\right)^4$

10) $\left(-4x^2 y^3\right)^4$

11) $\left(3a^0 b^2\right)^4$

12) $\left(4vu^4\right)^4$

13) $2x^4 \cdot x^3$

14) $3v \cdot 4v^3$

15) $\left(3v^2\right)^2$

16) $\left(2x^3\right)^4$

Solve each equation.

17) $133 = -5(1 + 6n) + 7n$

18) $6p - 6 = 1 + p + 4p$