Algebra 1 Name_____

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Prop. of Exponents WS (Day 2)

Simplify. Your answer should contain only positive exponents.

1) $nm^{-1} \cdot 4n^3$

2) $x^2y^{-1} \cdot 2xy^2$

3) $4x^2y^3 \cdot 4x^{-1}y^2$

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

5) $\left(x^{-2}y^3\right)^2$

6) $\left(3a^{-2}b^{-3}\right)^{-3}$

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7) $(2xy^4)^{-2} \cdot 2xy^2 \cdot (2xy^4)^4$

8) $2x^4y^2 \cdot (2x)^{-4}$

9) $\dfrac{x^4}{4x^2y^4}$

10) $\dfrac{2a^3}{4a^{-3}b^3}$

11) $\dfrac{2a^3b^{-4}}{4a^4b^{-3}}$

12) $\left(\dfrac{2x^2}{x^{-2}y^3}\right)^2$

13) $\dfrac{(u^{-3}v^{-1})^{-2}}{2v^3}$

14) $\dfrac{(2x^{-2}y^3)^2}{y^2}$

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