Algebra 1-Rogers Name_____ ID: 67

7.1-7.3 Properties of Exponents HW-2

Date_____ 19 PROBLEMS_____

Simplify. Your answer should contain only positive exponents. CHOOSE 5

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

2) $4m^{4}n^{-2} \cdot 3n^{-1}$

3) $m^{0}n^{2} \cdot 4m^{0}n^{0} \cdot 4m^{-3}n^{-2}$

4) $3xy^{3} \cdot 4x^{3}$

5) $3x^{-2}y^{-2} \cdot 4x^{-4}$

6) $uv^{4} \cdot 2u^{2}v^{0}$

Simplify. Your answer should contain only positive exponents. CHOOSE 3

7) $\left(-x^{2}y^{2} \cdot 2y^{4} \cdot 2x^{0}\right)^{4}$

8) $\left(x^{0}\right)^{-1} \cdot \left(2x^{-2}y^{3}\right)^{-2}$

9) $\left(a^{2}b^{3} \cdot -a^{4}b^{3}\right)^{-2}$

10) $2x^{2}y^{4} \cdot \left(2xy^{4}\right)^{-1}$

Simplify. Your answer should contain only positive exponents. CHOOSE 5

11) $\dfrac{y^{4} \cdot x}{\left(2x^{4}y^{-2}\right)^{0}}$

12) $\dfrac{x^{4}y^{4} \cdot 2x^{3}y^{-2} \cdot \left(y^{3}\right)^{3}}{x^{4}}$

13) $\dfrac{\left(x^{2}y^{-4}\right)^{-1}}{2x^{-4}y^{2} \cdot 2x^{0}}$

14) $\left(\dfrac{a^{4}}{a \cdot ab^{0}}\right)^{2}$

15) $\left(\frac{x^0 y^{-4}}{x^3 y^3 \cdot x^3 y^{-3}}\right)^0$

16) $\frac{yx^3}{(2xy^{-2})^{-4} \cdot (x^3 y^3)^{-1}}$

Simplify. Your answer should contain only positive exponents. CHOOSE 4

17) $\frac{(-x^2 y^3)^2}{x^4 y^3 \cdot 2x^0}$

18) $\left(-\frac{2xy^{-2} \cdot -2x}{y^{-4}}\right)^{-3}$

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

20) $-\frac{2x^0 y^3 \cdot y^4}{(-x^{-3} y^3)^2}$

21) $\frac{(-x^{-4} y^{-2} \cdot -x^0 y^{-1})^4}{-2xy^{-4}}$

Simplify. Your answer should contain only positive exponents.CHOOSE 2

22) $\frac{2x^0 y^4 z^{-2}}{2y^{-4} z^{-2} \cdot (x^2 y^3 z^3)^3}$

23) $\frac{2x^3 z^0 \cdot 2x^{-1} y^3 z^2}{(y^{-3} z^{-4})^3}$

24) $\frac{(2xzy^4)^0}{2x^4 z^0 \cdot 2x^{-4} y^0}$