

Name _____
Alg2a

Absent Assignment #1
Working with Monomials

When MULTIPLYING monomials you _____ the coefficients
and _____ the exponents.

When DIVIDING monomials you _____ the coefficients and
_____ the exponents.

1) $(-6x^4y^{-3}z^6)^2$

2) $(4x^8y^{10}z^{-5})(3x^{-5}y^3z^2)^3$

3) $\frac{60x^3y^6z^8}{75x^5y^6z^{-8}}$

4) $\frac{(4x^{12}y^8z^5)^2}{(2x^{-4}y^5z)^6}$

5) $(-7x^7y^4z^3)^2(3x^{-5}y^3z)^3$

6) $\frac{(6x^6y^9z^{-3})^2}{(4x^4y^{-6}z^2)^3}$

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7) $(-8x^3yz^6)^4$

8) $(2x^3y^5z^6)^4(5x^6y^9z^{-12})^2$

9) $(4xy^4z^8)^3(9x^9y^5z^{-10})^2$

10) $\frac{42x^5y^4z^5}{63x^{-5}y^4z^9}$

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$$11) \frac{(4x^2yz^5)^3}{16x^7y^{-3}z^{10}}$$

$$12) \frac{(4x^4y^{-2}z^6)^3}{(8x^6y^{-3}z^9)^2}$$

$$13) 4x(9x^2 - 15x - 12) - 12x(3x^2 + 5x - 4)$$

$$14) 3y^2(5y^3 - 4y^2 + 8y - 7) - 7y(3y^3 + 6y^2 - 5y - 9)$$