

Name: ANSWERS
A. Zito

Date: _____
Quiz

Exponents: Multiplication & Division

Show all your work.
Simplify all your answers.
Place your final answer in the space provided.

#	Show your work	Answer
1)	$(2a)(-3b)$	$-6ab$
2)	$(x^2)(x^4)$	x^6
3)	$(x^4)(y^2)$	x^4y^2
4)	$(a^4)(-c^3)$	$-a^4c^3$
5)	$(x^2)(x^3)(x^{-1})$	x^4
6)	$(2x^4)(-3x^{-1})$	$-6x^3$
7)	$(5a^2)(-3b^{-1})(2c)$	$-30a^2b^{-1}c$
8)	$9x^2(3x^4)$	$27x^6$
9)	$b(b)(b^4)$	b^6

18)	$\frac{-14x^{10}}{7y^4}$	$-2x^6$
19)	$\frac{-4b^{10}}{2a^6}$	$\frac{-2b^{10}}{a^6}$
20)	$\frac{-4c^8}{16d^{10}}$	$\frac{-c^8}{4d^{10}}$
21)	$\frac{6a^{10}}{-3a}$	$-2a^9$
22)	$3^2 + 3^3$	$9 + 27 = 36$
23)	$9^2 - 2^3$	$81 - 8 = 73$
24)	$(6^2)(6^4)$	$6^6 = 46656$
25)	$(9^2)(2^3)$	$81(8) = 648$
26)	$\frac{10^5}{10^2}$	10^3
27)	$2^4 + 2^3$	$16 + 8 = 24$