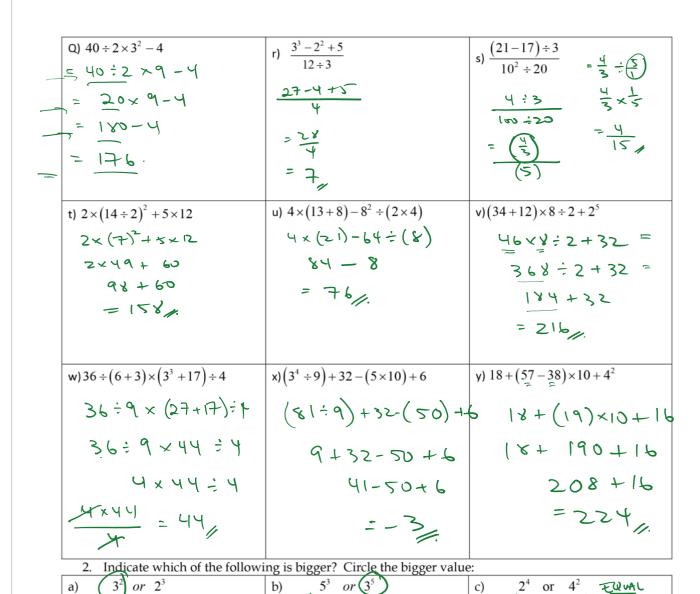
Name:	Date:	

Math 8 Section 1.6b Order of Operations with Exponents:

1. Evaluate each of the following operations. Remember the order of the operations. Show all your steps:

a) $4+5^2$	b) 3×2 ⁴	c) $11 + 3 \times 2^3$
4+25	= 3×4	= 11 + 3 × 8
= 29	- 48,,	= 11+24
	//	= 38 //
		,
d) $3 \times 2 + 3^3$	e) $2^2 + 3^2 + 4^2$	f) $4 - (1+2)^2$
= 6 + 27	=4+9+16	4-(3)
= 33/	= 29,	4-9
		= -5
g) $2(3+4)^2-10$	$h)(4)(1+2)^2$	$i)(\sqrt{12+4})-3^2$
2 (7)2-10	4(3)2	(116)-9
2(49)-10	= 4(9)	4-9
98-10	=36/	,
= 88//.		=-5//.
j) $\sqrt{3^2 + 4^2}$	$k) 3 - 2^3 \times 4$	L) $3^3 - 2^2 + 1^1$
19+16	3-8×4	27-4+1
525	3-32	= 24,
	= -29/	//
= 5/1.		
m) $5 \times 3^2 - 4$	n) $(-2)^2 + 3$	$p)(-2^2)+6$ $-(2\times2)+6$
5×9-4	4+3	-4+6 -(4)+6
45-4	= 7//	= 2/1 -4+6
= 41		= 2//
		<i>//.</i>

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32 or 2^3 b) 5^3 or 3^5 c) 2^4 or 4^2 FWML 16 = 16 3. Challenge: Use numbers 1, 2, 3, and 4, each once to replace variables in $a + b \times c^d$. What is the maximum

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value of the expression?