

Name: _____

Date: _____

BLM 6-3

Section 6.1 Investigate

Part A

Product of Powers	Method 1		Method 2		
	Evaluate Each Power	Multiply	Apply the Product Law	Single Power	Evaluate
$2^2 \times 2^3$	4×8	32	2^{2+3}	2^5	32
$2^2 \times 2^2$					
$2^2 \times 2^1$					
$2^2 \times 2^0$					
$2^2 \times 2^{-1}$					
$2^2 \times 2^{-2}$					
$2^2 \times 2^{-3}$					

Part B

Quotient of Powers	Method 1		Method 2		
	Evaluate Each Power	Divide	Apply the Quotient Law	Single Power	Evaluate
$2^6 \div 2^3$	$64 \div 8$	8	2^{6-3}	2^3	8
$2^6 \div 2^2$					
$2^6 \div 2^1$					
$2^6 \div 2^0$					
$2^6 \div 2^{-1}$					
$2^6 \div 2^{-2}$					
$2^6 \div 2^{-3}$					

Part C

Power of a Power	Method 1		Method 2		
	Evaluate the Power in the Brackets	Evaluate the Second Power	Apply the Power of a Power Law	Single Power	Evaluate
$(2^2)^3$	$(4)^3$	64	$2^{2 \times 3}$	2^6	64
$(2^2)^2$					
$(2^2)^1$					

