1. Find the value of each number using your understanding of exponents.

- 4<sup>5</sup>
- Six squared
- 3<sup>4</sup>
- 2. Is 54 a perfect square? Support your answer.
- 3. Use the order of operations to evaluate.
  - 24 ÷ (4 2) + 6
  - 20 (8 · 3) ÷ 2

\*\*\*challenge level - advanced math\*\*\*

- $5^2 \div (2^3 3) + 4$
- $(5 + 3^2 + 1) \cdot (4^3 8^2)$

Evaluate when	s = 5	s = 10
4s - 7		
s <sup>2</sup> - (s - 3)		

Write the operation each phrase represents.

Sum	Fewer than	
Difference	Quotient	
Product	Greater than	

• You complete 15 math problems in one hour. Write an algebraic expression to find the number of math problems you can complete in x hours.

You work for 3 hours. Solve for the number of math problems you completed using your algebraic expression.

 Write the phrase as an expression, then evaluate it when a = 5 and b = 7.

"The sum of a and b times three"

Simplify the expression. Explain your steps by listing the property you chose to use.

10 ( x · 6 )

Simplify		Property
Simplify		Property
Simplified	Expression	