Name _____

Date _____

The Air Force and Exponents

<u>Instructions</u>: The Air Force constantly uses exponents as a method to take inventory of many vital resources. Write each exponent in expanded form and then calculate the solution for each. Use your calculator to help if needed.

30 ⁸	
22 ⁵	
10 ⁹	
84	
97 ²	
Circle the correct answer: Which is bigger? 8 ⁴ or 4 ⁸	
Which is smaller? 20^{31} or 31^{20}	
Which is bigger? 4^{-3} or 4^{3}	

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Name _____ Date _____

Answer Key

Instructions: Write each exponent in expanded form and then calculate the solution for each. Use your calculator to help if needed.



 30^8 _____30x30x30x30x30x30x30x30 = 656,100,000,000 _____

 22^5 _22x22x22x22x22 = 5,153,632_____

 10^9 __10x10x10x10x10x10x10x10 = 1,000,000,000

8⁴ ____8x8x8x8 = 4,096_____

97² ____97x97 = 9,409_____

Circle the correct answer:

Which is bigger? 4⁸

Which is smaller? 11²⁰

Which is bigger? 4³



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