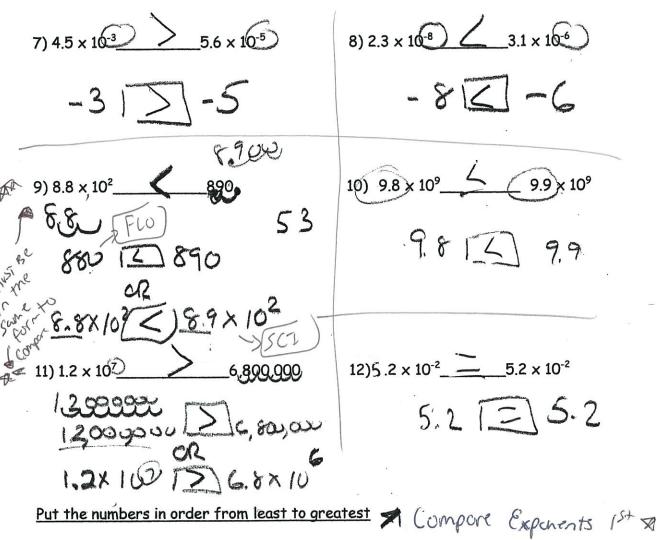
$\bigcirc$	Name W Mrs. Roumbos	Date 8R Period				
	Comparing two numbers written in Scientific Notation					
	the greater number.	number with the greater power of ten is				
	ten (coefficients)  ** If the exponents are negative, the small look at exponents for the small examples: Compare the following					
	1) 2.7 × 10 <sup>13</sup> 2.7 × 10 <sup>15</sup>	2/3.98 10.22 (2.52) 1022				
	13(5)7	3.98 2.52				
<u></u> .						
	3) 4.2 × 10 <sup>2</sup> 4.2 × 10 <sup>2</sup>	4) 1.2 107 (1.4) 107				
	7124	1.2121.4				
-						
	5) 1.1 × 10 3.3 × 10 2	$6(8.2) \times 10^{-2}$ $(3.2) \times 10^{-2}$				
·	758	82 32				
$\bigcirc$		·082> ·032				
		.082>.032				



1)  $4.63 \times 10^4$   $7.2 \times 10^{-3}$   $8 \times 10^{-4}$   $2.53 \times 10^{5}$ 

8×10-4 7.2×10-3 4.63×107 253×105

 $2 \cdot 5.6 \times 10^3$ ,  $4.2 \times 10^5$ ,  $5.6 \times 10^2$ ,  $6.3 \times 10^3$ 

5.6 × 10-2, 5.6 × 103, 6.3 × 103, 4.2 × 105

Name Date_ Mrs. Roumbos 8R Pe	riod							
Comparing Numbers in Scientific Notation								
The approximate weight of a whale shark is $4 \times 10^4$ pounds. The approximate dolphin is $2 \times 10^2$ pounds. How many times as great as the weight of the whale shar dolphin?  First: Compare the values between 1 and 10  The $4$ in $4 \times 10^4$ is times as great as the $2$ in $2 \times 10^2$	e weight of a common k is the weight of the							
Next: Compare the powers of 10  10 <sup>4</sup> is times as great as 10 <sup>2</sup>								
Circle: The most reasonable answer  The weight if the whale shark is 2/20/200/2,000 times as great as the weight of the dolphin  Answers are in Standard for (FLU)								
More Examples:  ) $8 \times 10^5$ is how many times as great as $4 \times 10^2$ ? 2/20/200/2,000 times?	matters with direction							
$(8 \times 10^5) = (4 \times 10^2) = (2,000)$	cores cores							
2) $9 \times 10^{10}$ is how many times as great as $3 \times 10^{7}$ ? 30/300/3,000/30,000 times? $ (9 \times 10^{10}) = (3 \times 10^{7}) - (3 \times 10^{7}) = (3 \times$	Long less in							
3) $4 \times 10^{-5}$ is how many times as great as $2 \times 10^{-4}$ ? 0.02/0.2/2/20 times?	Should be Should be							
4) $4 \times 10^{-12}$ is how many times as great as $4 \times 10^{-8}$ ? 0.00001/0.0001/10/1000 times $ \left( 4 \times 10^{-12} \right) \stackrel{\sigma}{=} \left( 4 \times 10^{-8} \right) = 0.0001 $	is bour							

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