Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Homework: Monday, October 3, 2016**

***TRY YOUR BEST! SHOW ALL OF YOUR WORK! ☺☺ NO WORK! NO CREDIT!***

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| **Write each number in scientific notation.**1. 4,400 b. 75,000 c. 69,900,000 d. 575,000,000

 **Write each n2umber in standard form.** **a.** 9.03 × $10^{2}$ **b.** 7.89 × $10^{3}$ **c.** 4.115 × $10^{5}$ **d.** 3.201 × $10^{6}$ |
|  **Write each n2umber in standard form** **a.** 1.49 × $10^{-7}$ b**.** 4.0027 × $10^{-4}$**c.** 5.2277 × $10^{-3}$ d**.** 8.50284 × $10^{-2}$**Write each number in scientific notation.****a.** 0.00000571 b**.** 0.0008331**c.** 0.0121 d**.** 0.00000018 | Florida is awesome. Florida has about 10 times more miles of rivers, streams, and waterways than miles of coastline. There are approximately 103 miles of coastline in Florida. About how many miles of rivers, streams, and waterways are in Florida? Write your answer as a power.  |

**Homework: Tuesday, October 4, 2016**

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| **SOLAR SYSTEM** Pluto is 3.67 ×$10^{9}$ miles from the Sun. Write this number in standard form.**MEASUREMENT** One centimeter is equal to about 0.0000062 mile. Write this number in scientific notation. | Which number is greater: $3.5×10^{4}$ or $2.1×10^{6}$?Which number is less: $7.2×10^{7}$ or $9.9×10^{5}$? |
| 4. Which expression is equivalent to (3x2)3?A. 9x5 B. 9x6 C. 27x5 D. 27x6 |  The power absorbed by a solar panel varies directly with its area. If an 8 square meter panel absorbs 8,160 watts of power, how much power does a 12 square meter solar panel absorb?  |

**Homework: Wednesday, October 5, 2016**

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| **POPULATION** The table lists the populations of five countries. List the countries from least to greatest population.

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| **Country** | **Population** |
| Australia | $$2×10^{7}$$ |
| Brazil | $$1.9×10^{8}$$ |
| Egypt | $$7.7×10^{7}$$ |
| Luxembourg | $$4.7×10^{5}$$ |
| Singapore | $$4.4×10^{6}$$ |

 | Simplify: Write your answer as a power.1. (-4)5 x (-4)7
2. (3.83)4
3. (h6)(h)

Is (xy2)3 the same as (xy3)2? Explain your answer or show the work?  |
| **Evaluate each expression. Express the result in scientific notation.****1.** (6.7 × $10^{4}$)(2.9 × $10^{5}$) **2.** (4.3 × $10^{4}$) + (5.21 × $10^{5}$) | **Evaluate each expression. Express the result in scientific notation.****3.** $\frac{5.46 × 10^{5}}{8.4 × 10^{3}}$ **4.** (9.6 × $10^{5}$) – (3.7 × $10^{3}$) |

**Homework: Thursday, October 06, 2016**

***TRY YOUR BEST! SHOW ALL OF YOUR WORK! ☺☺NO WORK! NO CREDIT!***

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| **OCEAN** Humpback whales are known to weigh as much as 8 × $10^{4}$ pounds. The tiny krill they eat weigh only 2.1875 × $10^{-3}$ pounds. How many times greater than krill are humpback whales? |

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| **Region** | **Amount Raised ($)** |
| East | 1.46 × $10^{4}$ |
| North | 2.38 ×$10^{4}$ |
| South | 6.75 ×$10^{3}$ |
| West | 8.65 ×$10^{3}$ |

**4. FUNDRAISER** The table shows the amount of money raised by each region for cancer awareness. How much money did the North and South raise together? |
| **DISASTERS** In 2005, Hurricane Katrina caused over $125 billion in damage in the southern United States. Write $125 billion in scientific notation.  | **6. MONEY** A bank starts the day with 2.93 × $10^{4}$ dollars in the vault. At the end of the day, the bank has 3.5 × $10^{5}$ dollars in the vault. How much more money is in the vault at the end of the day than there was in the morning? |