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| **Standard(s):**  **8.NS.1** | |
| **Questions** | **Answers** |
| 1.List the values from least to greatest. | 1 |
| 2. Identify the value  as rational or irrational. | 2. |
| 3. What are the proper real number system classifications of ? | 3. |
| 4. There are 140,000,000 miles between Earth and Mars. Write this number in scientific notation. | 4 |
| 5.The amount of water on the earth is about 1.4 x 108 square miles. Write this number in standard form. | 5. |
| **Standard(s):**  **8.EE.1** | |
| **Questions** | **Answers** |
| 1. Simplify | 1. |
| 1. Simplify | 2. |
| 1. Simplify | 3. |
| 1. Simplify | 4. |
| 1. Simplify | 5. |

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| **Standard(s):**  **8.EE.3** | |
| **Questions** | **Answers** |
| 1. There are about 100,000,000,000 trillion cells in the human body. Write this amount in scientific notation. | 1.  1 x 1011 |
| 2. The population of the world is about 7 x 109 people. Write this value in standard form. | 2.  7,000,000,000 |
| 3. The distance from Earth to the sun is 9.3 x107 miles. Earth is 2.4 x105 miles from to the moon. Is Earth closer to the sun or the moon? | 3.  Moon |
| 4. An object weighs 2 x 104 lbs. How much does an object 300 times heavier weigh? Write your answer in scientific notation. | 4.  6 x 106 lbs. |
| 5.In 1951, the UNIVAC I computer processed at 8 x 10-4 clock cycles per second. In 2013, Intel Core i7 processed at 8 clock cycles per second. How many times faster did the computer become over the years? | 5.  10,000 times faster |
| **Standard(s):**  **8.EE.4** | |
| **Questions** | **Answers** |
| 1. Multiply | 1.092 x 103 |
| 1. Divide | 2.  2 x 108 |
| 3. Sarah has about 7.2 x 106 hairs on her head. Sarah’s baby sister has about 3.2 x 104 hairs on her head. How much hair do they have altogether? | 3.  7.232 x 106 hairs |
| 4. Carlos is completing test corrections. He claimed the problem = .  What was Carlos’ error? | 4. Carlos divided the exponents instead of subtracting the exponents. |
| 5. What number (in standard form) is equivalent to 7.31E-6 shown on a calculator screen? | 5.  0.00000731 |