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Scientific notation operations worksheet

Scientific notation is a powerful tool for simplifying big or small numbers. It's used to express numbers as the product of a number and a power of 10. Any number can be written in this form: $a \times 10^n$, where 'a' is a positive number and 'n' is an integer. For example, 4,800 can be rewritten as 4.8×10^3. Similarly, the tiny number 0.0079 becomes 7.9×10^{-4}. When dealing with big numbers like 1,400,000, you shift the decimal point to the left until it's directly in front of the first non-zero digit. Then, count how many places you moved the decimal and that will be the exponent (n). So, 1,400,000 becomes 1.4×10^6. Scientific notation is useful for simplifying calculations with large or small numbers. It helps to keep track of these numbers and makes calculations easier. To practice using scientific notation, you can try adding, subtracting, multiplying, and dividing numbers in this format. To access the worksheet, click "Not a robot" first then try downloading again. The resource includes four parts: model problems, practice, challenge problems, and an answer key. It covers converting between scientific notation and standard form. This worksheet set is geared towards students in grades 6-12 and offers some for free.

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