Scientific Notation Worksheets 8th Grade

1. Express 70000000000000000000 in scientific notation:

2. How can we express 1.16×10^3 as a whole number?

3. Compare the following numbers:
$$2.31 \times 10^{-3} \underline{\hspace{2cm}} 2.31 \times 10^{-4}$$

4. Simplify and write the answer as a decimal.
$$3.2 \times 10^4 \times 1.1 \times 10^{-9}$$

5. Simplify and write the answer as a whole number.
   1. $$2 \times 10^4 + 3 \times 10^3 - 13 \times 10^2$$
   2.

6. If $g(n) = (\frac{3}{7})^n$, find $g(-2)$.

7. Alan has a paper of length 2.31×10^{-5} inches whereas Willy has a paper of length 2.31×10^{-4} inches. Whose paper has a greater length?

8. Population of a country A is $8,800,000$ and that of country B is 1.05×10^9. Find the total population of both the countries. Write your answer as a whole number.

9. A piece of cloth is 1.059×10^{-3} inches thin. If there is a bundle of 30 clothes kept on top each other, find the thickness of the whole bundle. Write your answer in the standard form.

10. If the speed of a sports car is 3.1×10^{9} miles per hour. Find the speed of the car in 1 minute. Write your answer in the standard form.

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ANSWERS

1) 7×10^{19}	6) $\dfrac{49}{9}$
2) 1160	7) Willy
3) $>$	8) $1,058,800,000$
4) 0.0000352	9) 3.177×10^{-4} inches
5) 21700	10 5.167×10^{7} miles per minute

FUN FACT

- Scientific notation is a method to represent huge or small decimal numbers in a standard form.

- The exponent of 10, that is k can be a negative integer or a positive integer.
- To convert any decimal number to its standard form, we just need to change the decimal place.