

Scientific notation worksheet

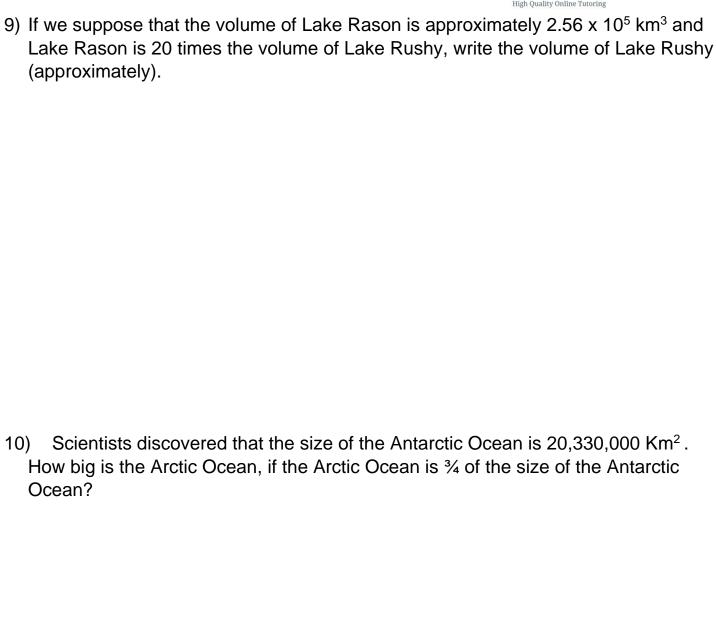
Word problems

1)	In Australia, the people use approximately 2,240,000,000 pounds of bread in a year. How can we write this number in scientific notation?
2)	If a satellite travels 62,000,000 miles from Earth, how can we write it in scientific notation?
3)	0.000065 is the wave length of yellow light. Can you express the measurement using scientific notation?
4)	The bedroom of our house is 1,200 cubic meters. We know that there are 3.4×10^9 particles of dust per cubic meter. Write how many particles of dust are present in the bedroom of our house.
5)	Find out the weight of 6 billion dust particles, if a dust particle has a mass of 7.53 x 10^{-10} g.



6) Last month, my friend bought a computer. If it can perform 4.66 x 10 ⁸ calculations per second, what is the performance of the computer in one minute?
7) If the speed of light is 3 x 10 ⁸ meters/second, how many seconds does it take light to reach the Earth, if the sun is 1.5 x 10 ¹¹ meters from Earth? Write the answer in scientific notation.
8) Through research, scientists found that the body of a 200 lb person consists of 3.2 x 10 ⁻⁵ lbs of zinc. In the bodies of 1,500 such people, how much zinc is present?







Answers

- $1. 2.24 \times 10^9$
- $2.6.2 \times 10^7$
- 3. 6.5×10^{-5}
- 4. 4.08×10^{12}
- $5. 4.518 \times 10^{0}$
- 6. 2.796×10^{10}
- 7. 5×10^{19} s
- $8. 2.4 \times 10^{-4}$
- 9. 1.28×10^4
- 10. 1.52475×10^7