



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 7.53×10^{-10} g.



- 6) Last month, my friend bought a computer. If it can perform 4.66×10^8 calculations per second, what is the performance of the computer in one minute?
- 7) If the speed of light is 3×10^8 meters/second, how many seconds does it take light to reach the Earth, if the sun is 1.5×10^{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 3.2×10^{-5} lbs of zinc. In the bodies of 1,500 such people, how much zinc is present?



- 9) If we suppose that the volume of Lake Rason is approximately $2.56 \times 10^5 \text{ km}^3$ and Lake Rason is 20 times the volume of Lake Rushy, write the volume of Lake Rushy (approximately).
- 10) Scientists discovered that the size of the Antarctic Ocean is 20,330,000 Km^2 . How big is the Arctic Ocean, if the Arctic Ocean is $\frac{3}{4}$ of the size of the Antarctic Ocean?