



## 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?

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- 2) If a satellite travels 62,000,000 miles from Earth, how can we write it in scientific notation?

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- 3) 0.000065 is the wave length of yellow light. Can you express the measurement using scientific notation?

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- 4) The bedroom of our house is 1,200 cubic meters. We know that there are  $3.4 \times 10^9$  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  $7.53 \times 10^{-10}$  g.



- 6) Last month, my friend bought a computer. If it can perform  $4.66 \times 10^8$  calculations per second, what is the performance of the computer in one minute?
- 7) If the speed of light is  $3 \times 10^8$  meters/second, how many seconds does it take light to reach the Earth, if the sun is  $1.5 \times 10^{11}$  meters from Earth? Write the answer in scientific notation.
- 8) Through research, scientists found that the body of a 200 lb person consists of  $3.2 \times 10^{-5}$  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  $\text{Km}^2$ . How big is the Arctic Ocean, if the Arctic Ocean is  $\frac{3}{4}$  of the size of the Antarctic Ocean?



## Answers

1.  $2.24 \times 10^9$
2.  $6.2 \times 10^7$
3.  $6.5 \times 10^{-5}$
4.  $4.08 \times 10^{12}$
5.  $4.518 \times 10^0$
6.  $2.796 \times 10^{10}$
7.  $5 \times 10^{19} \text{ s}$
8.  $2.4 \times 10^{-4}$
9.  $1.28 \times 10^4$
10.  $1.52475 \times 10^7$