

Wednesday Homework

Practice 2.1

Tell whether each number is written correctly in scientific notation. If incorrectly written, state the reason.

1 $71 \cdot 10^{22}$

2 $8 \cdot 10^{-2}$

3 $0.99 \cdot 10^{-3}$

4 $1.2 \cdot 10^4$

Write each number in scientific notation.

5 533,000

6 327.8

7 0.0034

8 0.00000728

Write each number in standard form.

9 $7.36 \cdot 10^3$

10 $2.431 \cdot 10^4$

11 $5.27 \cdot 10^{-2}$

12 $4.01 \cdot 10^{-4}$

Identify the lesser number in each pair of numbers. Justify your reasoning.

13 $8.7 \cdot 10^6$ and $5.9 \cdot 10^3$

14 $4.8 \cdot 10^3$ and $9.6 \cdot 10^7$

15 $3.1 \cdot 10^{-5}$ and $7.5 \cdot 10^{-5}$

16 $6.9 \cdot 10^{-3}$ and $4.3 \cdot 10^{-3}$

Wednesday Homework (continued)

Solve. Show your work.

- 17** The table shows population data for some countries. Write each population in scientific notation.

Country	Population
Brazil	190,000,000
Singapore	5,100,000
Monaco	35,000
Fiji	861,000

- 18** Human blood contains red blood cells, white blood cells, and platelets. The table shows the approximate diameters of each of these cells in fractions of a meter. Write each diameter in scientific notation.

Type of Cell	Diameter (m)
Red blood cell	0.000007
White blood cell	0.00000233
Platelet	0.0000025