P.S. #2.1 - Understanding Scientific Notation Class: Explain the meaning of each number below. 10⁻³ 10^{0} 10^{5} 3.) Explain why $3.72 \cdot 10^3$ is equivalent to 3720. 4.) Explain why $5.9 \cdot 10^{-4}$ is equivalent to 0.000595.) Tell whether each number is written correctly in scientific notation. If incorrectly written, state the reason. 6.) $71\cdot 10^{22}$ 7.) $8 \cdot 10^{-4}$ 8.) $0.99 \cdot 10^{-4}$ 9.) $1.2 \cdot 10^4$ Write each number in standard form.

10.) $7.36 \cdot 10^3$

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

12.) 1.9 · 10⁴

13.) $9.61 \cdot 10^{-1}$

14.) $4.23 \cdot 10^{-3}$

15.) 1.89 · 10⁰

Write each number in scientific notation.

16.) 0.0073

17.) 2800

18.) 4

19.) 0.0005

20.) 56.9

21.) 0.00000761

22.) In 2000, Americans consumed an average of 47.2 pounds of potatoes and 5.936 · 10² pounds of dairy products per person. Did Americans consume more potatoes or dairy products?

23.)	An actor has 75,126 fans on a social network. A musician has $8.58 \cdot 10^4$ fans. network?	Who has more fa	ns on the social
24.)	The average diameter of a type of round shaped bacteria is 0.0000037 meter. T	he spacing betwe	en two of these
,	bacteria is $2.1 \cdot 10^{-9}$ meter. Which is lesser?	. 5	
25.)	The table shows population data for some countries. Write each population in so	ientific notation.	
	Brazil:	Country	Population
		Brazil	190,000,000
	Singapore:	Singapore	5,100,000
	Monaco:	Monaco	35,000
	Fiji:	Fiji	861,000
	riji:		
26.)	Human blood contains red blood cells, white blood cells, and platelets. The table		
	of each of these cells in meters. Write each diameter in scientific notation.	Type of Cell Red blood cell	0.000007
	Red blood cell:	White blood cell	0.000007
	White blood calls	Platelet	0.0000025
27.)	White blood cell: Platelet: A technician reads and records the air pressure from several pressure gauges.	Platelet	0.0000025
27.)	Platelet: A technician reads and records the air pressure from several pressure gauges.	Platelet Pressure Gauge	Air Pressure (Pa)
27.)	Platelet: A technician reads and records the air pressure from several pressure gauges. a.) Which pressure gauge has the greatest reading?	Pressure Gauge	Air Pressure (Pa) 210,000
27.)	Platelet: A technician reads and records the air pressure from several pressure gauges. a.) Which pressure gauge has the greatest reading? b.) Which pressure gauge has the lowest reading?	Pressure Gauge A B	Air Pressure (Pa) 210,000 5.2 · 10 ⁵
27.)	Platelet: A technician reads and records the air pressure from several pressure gauges. a.) Which pressure gauge has the greatest reading? b.) Which pressure gauge has the lowest reading? c.) The atmospheric pressure when these readings were made was	Pressure Gauge A B C	Air Pressure (Pa) 210,000 5.2 · 10 ⁵ 170,000
27.)	Platelet: A technician reads and records the air pressure from several pressure gauges. a.) Which pressure gauge has the greatest reading? b.) Which pressure gauge has the lowest reading?	Pressure Gauge A B C spheric pressure	Air Pressure (Pa) 210,000 5.2 · 10 ⁵ 170,000
·	A technician reads and records the air pressure from several pressure gauges. a.) Which pressure gauge has the greatest reading? b.) Which pressure gauge has the lowest reading? c.) The atmospheric pressure when these readings were made was 1.1 · 10 ⁵ pascals. Which gauge(s) showed a reading greater than the atmospheric pressure when these readings were made was 1.1 · 10 ⁵ pascals. Which gauge(s) showed a reading greater than the atmospheric pressure when these readings were made was 1.1 · 10 ⁵ pascals. Which gauge(s) showed a reading greater than the atmospheric pressure when these readings were made was 1.1 · 10 ⁵ pascals. Which gauge(s) showed a reading greater than the atmospheric pressure when these readings were made was 1.1 · 10 ⁵ pascals. Which gauge(s) showed a reading greater than the atmospheric pressure when these readings were made was 1.1 · 10 ⁵ pascals. Which gauge(s) showed a reading greater than the atmospheric pressure when these readings were made was 1.1 · 10 ⁵ pascals. Which gauge(s) showed a reading greater than the atmospheric pressure when the second pressure wh	Pressure Gauge A B C espheric pressure	Air Pressure (Pa) 210,000 5.2 · 10 ⁵ 170,000
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