No 6 of packet Test Measurement & Nanotechnology Grades 6 - 12

Answer the following True or False: Circle One

1. A liter contains 1,000 smaller units called milliliters.

True or False

2. A liter has a Volume of 1,000 cubic centimeters.

True or False

3. If we convert 6 543.219 meters, to kilometers we get 6.543 219 km.

True or False

4. Nanoscience is the study and development of materials and structures in the range of 1 nm (10^{-9} m) to 100 nanometers (100×10^{-9} m = $10^2 \times 10^{-9}$ = 10^{-7}) and the unique properties that arise at that scale.

True or False

Definition: Angstrom (A°) = 10^{-10} meters

5. An angstrom A° is greater than an nanometer.

True or False

End of True/False

Answers: 1. T 2. T 3. T 4. T 5. F 6. (c) 7. (d) 8. (b) 9. (d) 10 (c)

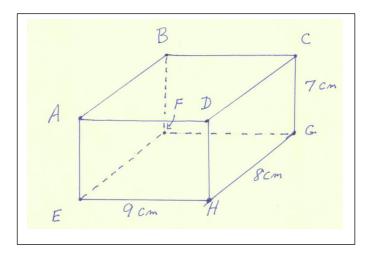
Answer the following Multiple Choice Questions: Circle One answer for each question.				
6. A vitamin C tablet has a mass of 500 mg. That is the same as				
(a) 5 g (b) 0.05 g (c) 0.5 g (d) 0.5 kg				
7. The length of a pencil would probably best be measured in				
(a) milligrams (b) meters (c) micrometers				
(d) centimeters				
8. The unit of volume that is the same as one cubic decimeter is the				
(a) meter (b) liter (c) gram				
(d) millimeter				
9. Determine the order of magnitude difference in the sizes of the radii for Atoms (10^{-10} meter) compared with neutrons (10^{-15} meter).				

- (a) Order 4(b) Order 2(c) order 12(d) Order 5
- 10. How long has it been legal to use the metric system in the U.S?.
- (a) 1958.
- (b) 1975
- (c) 1866
- (d) 1921.

More Metric Questions including:

Surface Area, Volume & Mass

Consider the box (rectangular Prism) 7 cm by 8 cm by 9 cm and then answer the questions;



Answer the Follow True or False: Circle the correct Answer and write the answer in the space provide.

1. The 7 cm by 8 cm by 9 cm box has a capacity less than one half liter (500 cm³ or 500 mL).

(a) TRUE (b) FALSE 1. Answer

2. The 7 cm by 8 cm by 9 cm box has a Volume greater than 500 cm^3 .

(a) TRUE (b) FALSE 2. Answer _____

End of True/False

Answers: 1. (b) Volume = 504 cm^3 or 504 mL 2. (a) 3. (b) {**382 ; 7 x 8 + 7 x 9 + 8 x 9 and double** } 4. (d) 5. (c) Answer these Multiple Choice Questions:

3. What is the surface area of the 7 cm by 8 cm by 9 cm box?

		3. Answer	
(a) 191 cm^2	(b) 382 cm^2	(c) 94 cm^2	(d) 32 cm^2
4. If the box the water?			nat is the mass of g
(a) 94 g	(b) 382 g	(c) 500 g	(d) 504 g
compare v	a Liter Cube (1) vith the box about the box	ove 7 cm by 8	-
		1 0	(voranies) in mil.
			(())) () () () () () () () () () () () (
(a) 1 000 mL			
	(c) 94	5. Ans =	
(a) 1 000 mL (d) 94	(c) 94 0 mL	5. Ans = mL (c) 49	
(a) 1 000 mL (d) 94 6. Hello my	(c) 94 0 mL name is	5. Ans = mL (c) 49	96 mL
 (a) 1 000 mL (d) 94 6. Hello my and I am _ 	(c) 94 0 mL name is	5. Ans = mL (c) 49 cm tall whi	96 mL
 (a) 1 000 mL (d) 94 6. Hello my and I am _ 7. Hello my 	(c) 94 0 mL name is School is	5. Ans = mL (c) 49 cm tall whi	96 mL
 (a) 1 000 mL (d) 94 6. Hello my and I am _ 7. Hello my 	(c) 94 0 mL name is School is	5. Ans = mL (c) 49 cm tall whi	96 mL ch is

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