REVIEW

Chapter 3 : Lesson 3A

1. Select the best definition of a Measurement?

A) A comparison of an unknown quantity to a known standard unit

B) A method to calculate the volume of a substance

C) A way to determine the color of a chemical

D) A process to identify the chemical composition of a substance

2. What 2 parts does a Measurement consist of ?

_____

_____

3. Which system of measurement is used globally by scientists?

A) The British Imperial System

B) The US Customary System

C) The Metric System (SI)

D) The Roman System

4. How many fundamental units are there in the SI system?

A) 5

B) 7

C) 20

D) 22

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5. **How many derived units are there in the SI system?**

A) 5

B) 7

C) 20

D) 22

6. **Match up the Dimensions on the left with the correct Unit on the right by connecting each pair with a line.**

Time	m
Length	kg
Light Intensity	s
Mass	K
Temperature	A
Number of Particles	cd
Electrical Current	mol

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7. Drag & Drop each of the following items into the correct box :

Frequency	Length	Volume	Temperature
Mass	Light Intensity	Energy	Electrical Current
Time	Force	Density	Pressure

SI Derived Units	SI Fundamental Units

8. What is the SI unit for mass?

A) Meter

B) Gram

C) Kelvin

D) Ampere

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9. What is the SI unit for temperature?

A) Meter

B) Gram

C) Kelvin

D) Ampere

10. What is the SI unit for electrical current?

A) Meter

B) Gram

C) Kelvin

D) Ampere

11. Which of the following is a derived unit in the SI system?

A) Meter

B) Kilogram

C) Joule

D) Candela

12. Which of the following is a fundamental unit in the SI system?

A) Pascal

B) Kilogram

C) Joule

D) Newton

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13. What does the prefix 'kilo-' represent in the SI system?

A) 10^{3}

B) 10^{-3}

C) 10^{6}

D) 10^{-6}

14. What does the prefix 'milli-' represent in the SI system?

A) 10^{3}

B) 10^{-3}

C) 10^{6}

D) 10^{-6}

15. What does the prefix 'centi-' represent in the SI system?

A) 10^{2}

B) 10^{-2}

C) 10^{4}

D) 10^{-4}

16. What does the prefix 'mega-' represent in the SI system?

A) 10^{6}

B) 10^{-6}

C) 10^{4}

D) 10^{-4}

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17. What is the correct equivalence expression to use when converting meters to centimeters within the SI system?

A) 1m = 10cm

B) 1m = 100cm

C) 1m = 1000cm

D) 1m = 0.1cm

18. What is the correct equivalence expression to use when converting inches to millimeters between the SI and Imperial systems?

A) 1 inch = 2.54 mm

B) 1 inch = 25.4 mm

C) 1 inch = 254 mm

D) 1 inch = 0.254 mm

19. Convert 7,500 g into kg.

A) 0.075 kg

B) 0.75 kg

C) 7.5 kg

D) 75 kg

20. Convert 10 km into cm.

A) 0.0001 cm

B) 0.1cm

C) 1,000 cm

D) 1,000,000 cm

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21. Convert 1,000,000 μm into m.

A) 0.0001 m

B) 0.1 m

C) 1 m

D) 1,0000 m

22. The Volume of a block of wood is 4,505,033 cm3. Convert this into m3.

A) 0.0004505033 m^3

B) 0.4505033 m^3

C) 4.505033 m^3

D) 4,505.033 m^3

23. Convert 137 inches into m.

A) 0.00035 m

B) 0.34798 m

C) 3.5 m

D) 3,479.8 m

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