

Part A: Fill in the missing information in the table below:

SI Prefixes and their meanings	
Prefix	Meaning
<u>milli</u>	1/1000 or 0.001
<u>centi</u>	1/100 or 0.01
deci	<u>1 or 1/10</u>
<u>deka (deca)</u>	10
hecto	<u>100</u>
<u>Kilo</u>	1000

Part B: Circle the larger unit in each pair:

1. milliliter, kilometer

4. centimeter, millimeter

2. decimeter, decameter

5. hectogram, kilogram

hectogram, decigram

Part C: In SI, the base unit of length is the meter. Use this information to arrange the following units of measurement in the correct order from smallest to largest. Write the number 1 (smallest) through 7 (largest) in the spaces provided.

7 6. kilometer

6 10. hectometer

2 7. centimeter

1 11. millimeter

4 8. meter

3 12. decimeter

5 9. decameter

Part D: Use your knowledge of the prefixes used in SI to answer the following questions in the spaces provided.

13. One part of the Olympic games involves an activity called the decathlon. How many events do you think make up the decathlon? 10

4. How many years make up a century? 100

15. How many years make up a decade? 10

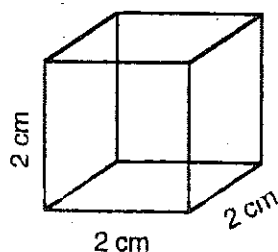
Worksheet: Prefixes of the SI System

(Frameworks Code)

Part E: Complete the table by supplying the missing information:

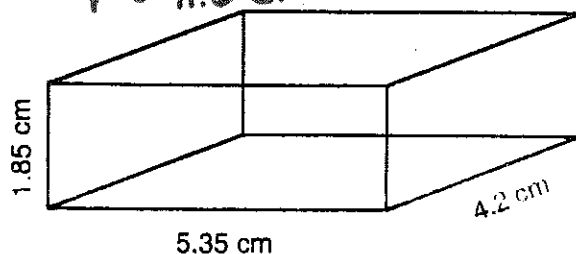
Measurement	Base Unit	Symbol
Length	meter	m
mass	gram	g
time	second	s
liquid volume	Liter	L
temperature	Kelvin	K
Solid Volume	cubic centimeter	cm ³
density of solids	grams/cubic centimeter	g/cm ³
density of liquid	grams/milliliter	g/mL

Part F: In each of the following, circle the units that would most likely be used to express each kind of measurement. You may circle more than one answer for each item.

Volume of a solid: mL m³ cm³ LMass: kg K cm³ mgVolume of a liquid: mL mg cm³ LTime: kg K s mmDensity of a material: g g/cm³ kg/m³ LLength: K km m cmTemperature: °K K °C kgPart G: Calculate the volume of the 2 objects shown below using the formula: $V = l \times w \times h$. Show your work.

$$V = 2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$$

$$V = 8\text{ cm}^3$$



$$V = 5.35\text{ cm} \times 4.2\text{ cm} \times 1.85\text{ cm}$$

$$V = 41.6\text{ cm}^3$$