

Numbers and Units

1. **How many grams are there in 1 kilogram?**
Answer. There are 1000 grams in 1 kilogram.
2. **How many millimetres are there in 1 meter?**
Answer. There are 1000 millimetres in 1 meter.
3. **How many microseconds are there in 1 second?**
Answer. 1000000
4. **What is the formula of area of a rectangle?**
Answer. Base $\times$ Height
5. **Write all the possible units of Mass? Write there symbols as well**
Answer. Grams(g), kilogram(kg), milligram(mg), nanogram(ng)
6. **Write the SI unit of Mass? Write the symbol as well**
Answer. Kilogram(kg)
7. **Write all the possible units of Length? Write there symbols as well**
Answer. Meter(m), kilometre(km), millimetre(mm), nanometre(nm)
8. **Write the SI unit of Length? Write there symbols as well.**
Answer. Meter(m)
9. **Write all the possible units of Time? Write there symbols as well**
Answer. Seconds(s), milliseconds(ms), nanosecond(ns)
10. **Write the SI unit of Time?**
Answer. Seconds(s)
11. **Does mass ever change if you go to a different planet?**
Answer. No. Mass always remains the same.
12. **What is the value of prefix Micro? Write its symbol as well. Write in both Exponent and fraction.**

Answer. Micro(μ)= 10^{-6}

OR

$$\frac{1}{1000000}$$

Both could be used depending on the question.

13. **What is the value of prefix Nano?**
Answer. Nano(n)= 10^9 OR 1000000000
14. **What is the value of prefix Milli?**
Answer. Milli(m)= 10^{-3} OR $\frac{1}{1000}$
15. **Which tool/equipment is used to find the length of a straight surface?**
Answer. Ruler OR Meter Ruler OR Meter Rule. They all are same thing.
16. **What tool/equipment would you use if the length is too small to measure?**
Answer. Millimetre Screwguage
17. **Write the formula of Volume of rectangular shape?**
Answer. Height $\times$ Length $\times$ Width
18. **Which tool/equipment is used to measure time?**
Answer. Stopwatch
19. **What will you do If the time, you want to measure, is too small?**
Answer. You will let the experiment go for a longer period of time and find the total time.
Take the average
20. **Define Density?**
Answer. Mass per unit volume is called Density.

21. **Write the formula of density?**

Answer. $density = \frac{Mass}{Volume}$

22. Change the formula of density to find mass?

Answer. $Mass = density \times Volume$

23. Change the formula of density to find Volume?

Answer. $Volume = \frac{Mass}{density}$

24. Write SI unit of density?

Answer. $\frac{kg}{m^3}$

25. What is the value of density of Water?

Answer. $1000 \frac{kg}{m^3}$

26. Which tool/equipment is used to measure the Volume of Liquid?

Answer. Measuring Cylinder

27. Which tool or equipment is used to measure Mass?

Answer. Balance

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