



Measurement of Length and mass

A. Choose the Correct Answer:

1. What is the standard unit of length in the metric system?

- A) Kilogram
- B) Meter
- C) Liter
- D) Gram

2. Which of the following is used to measure very small lengths, such as the thickness of a paper?

- A) Meter scale
- B) Vernier caliper
- C) Measuring tape
- D) Weighing scale

3. Which of the following is the correct unit of mass?

- A) Meter
- B) Second
- C) Kilogram
- D) Celsius

B. Fill in the Blanks:

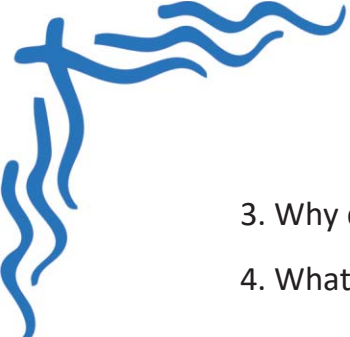
1. The length of a pencil is usually measured in _____.
2. A _____ is used to measure the weight of an object.
3. The unit of mass smaller than a kilogram is called _____.

C. Case Study:

Ravi's school organized a science fair where students had to measure different objects. Ravi used a ruler to measure his notebook and found it was 30 cm long. Then, he weighed a small bag of rice and noted its weight as 2 kg. His friend, Meera, used a measuring tape to measure the height of a door, which was 2 meters.

Case Study Questions:

1. What was the length of Ravi's notebook?
2. Which measuring tool did Ravi use to measure the notebook?

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3. Why did Meera use a measuring tape instead of a ruler?
 4. What is the standard unit of mass that Ravi used for weighing the rice bag?

D. Short Answer Questions:

1. What is the difference between mass and weight?
2. Name two instruments used to measure length.
3. Why do we use kilograms instead of grams for measuring the weight of a heavy object?

E. Long Answer Questions:

1. Explain the different units used for measuring length and mass with examples.
 2. Describe how different measuring tools are used for different purposes.
 3. Why is it important to use standard units of measurement?
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