

Class: 6

Subject: Physics

Chapter: Physical Quantities and Measurement

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(Children please listen to the given audio clip carefully, discussed in the audio clip are some key points that would summarize the entire chapter for you, however please do read the chapter thoroughly before attempting the work sheet given below)

Measurement is done to ascertain the size, shape, amount or degree of physical bodies. It is done by comparing a standard unit with an object of unknown value. Measurement plays a very vital role in our daily life as we are always comparing different objects in regards to their size, shape, weight etc. We do not know a physical quantity unless we can measure it. Thus in this chapter we will learn about different objects and events hence we'll come across quantities like length, breadth, time, speed, temperature, volume etc. These quantities can be measured and are called physical quantities.

Q1. Define the following.

- a. length
- b. ruler
- c. mass
- d. time
- e. temperature
- f. area

Q2. Name the following.

- a. A ruler that is 3 feet long.
- b. The device is enclosed in a glass box to avoid the effect of wind.

- c. It indicates the apparent local solar time at a given instant in a given location.
- d. It indicates temperatures from a minimum of 35° C or 94° F to 42° C or 108° F.
- e. A writing paper that is printed with fine lines making up a regular grid.

Q3. Fill in the blanks.

- a. S.I unit of length is \_\_\_\_\_, for long distance is \_\_\_\_\_.
- b. Conversion of 24 hour time into \_\_\_\_\_ time.
- c. Two commonly used temperature scales are \_\_\_\_\_ and \_\_\_\_\_.
- d. \_\_\_\_\_ thermometer is used to measure the temperature of human body.
- e. Surface area is defined as the measure of the \_\_\_\_\_ of an \_\_\_\_\_.

Q4. Mark True or False.

- a. Kilometer unit is used to measure short distances.
- b. SI unit of time is second.
- c. Mercury is toxic and difficult to dispose off.
- d. 1 hectare = 100m X 100m = 10,000m<sup>2</sup>

Q5. Answer the following questions.

- a. What should you do when the zero mark of the scale is damaged?
- b. Name the different type of devices used to measure length. Give one use of each.
- c. What is an electronic balance? Give five precautions to be taken when using an electronic balance.
- d. What are periodic?
- e. Explain in brief what a mean solar day is.

f. How would you define a temperature scale. Name the two commonly used temperature scales.

(**Note:** Children in addition to the work sheet given please do Exercise A, B, C, D and H on pages 28 and 29 of your text book)

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