

For the correct measurement of the length you will use the scale

- (a) A only
- (b) B only
- (c) C only
- (d) Any of the three Scales.

Solution:

(d): Any of the three Scales.

Length of 10 cm is available in all the three scales A, B and C. So, any of the three scales' can be used.

10. Correct the following:

- (i) The motion of a swing is an example of rectilinear motion.
- (ii) $1\text{m} = 1000\text{cm}$

Solution:

(i) No, the motion of a swing is not an example of rectilinear motion. The motion of a swing is an example of periodic motion as it repeats its motion after a fixed interval of time.

(ii) $1\text{m} = 100\text{ cm}$. Each metre (m) is divided into 100 equal divisions, called centimeter (cm).

11. Fill in the blanks.

- (i) Motion of an object or a part of it around a fixed point is known as _____ motion.
- (ii) A body repeating its motion after certain interval of time is in _____ motion.
- (iii) In rectilinear motion, object moves a _____ line _____.
- (iv) SI unit of length is _____.

Solution:

- (i) Circular
- (ii) periodic
- (iii) along; straight
- (iv) metre

12. Write one example for each of the following type of motion.

- (i) Rectilinear
- (ii) Circular
- (iii) Periodic
- (iv) Circular and periodic

Solution:

- (i) Rectilinear - An apple falling vertically downwards.