

BRAIN INTERNATIONAL SCHOOL

Science Assignment

Class: VI

October'2024

Chapter -7: Motion Measurement and Distances

1. Choose the correct option:

- (i) What is the SI unit of length
(a) Meter (b) Centimetre (c) Decametre (d) None of these
- (ii) 15 cm are equal to
(a) 150mm (b) 15mm (c) 0.15mm (d) None of these

2. In each of the following questions, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

- a) Both A and R are true, and R is correct explanation of the assertion.
b) Both A and R are true, but R is not the correct explanation of the assertion.
c) A is true, but R is false.
d) Both assertion and reason are false.
- (i) Assertion (A): The motion of a child on a swing is an example of periodic motion.
Reason (R): The motion that repeats itself after certain interval of time is known as periodic motion.
- (ii) Assertion (A): A car moving in straight line is an example of rectilinear motion.
Reason (R): The objects that travel along a straight line are said to be in motion.

3. Answer the following questions:

1. Give one example of each periodic and oscillatory motions.
2. Why a cubit cannot be used as the standard unit of length?
3. State two precautions, which should be taken while using a metre scale to measure the length of an object.
4. If you are sitting in a moving bus, are you at rest or in motion?
5. Describe an activity that how do you measure the length of curved line using a meter scale.
6. Define Rectilinear, periodic and circular motion with two examples each.

Chapter-8: Light shadows and reflections

1. Choose the correct option:

1. What is lateral inversion?
(a) Image become inverted (b) Only one side of image is visible
(b) Image bends laterally (d) Right side of the object appears left of the image

2. Which device is use to image the Sun?
(a) Plane mirror (b) Pinhole camera
(c) A Straight pipe (d) Glass Slab

2. In each of the following questions, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

- a) Both A and R are true, and R is correct explanation of the assertion.
 - b) Both A and R are true, but R is not the correct explanation of the assertion.
 - c) A is true, but R is false.
 - d) Both assertion and reason are false.
- (i) Assertion (A): Shadow is always black.
Reason (R): A Shadow only show the outline of an object.
- (ii) Assertion (A): Image has the colour of object
Reason (R): Image only gives the outline of an object.
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3. Answer the following questions:

1. Define pinhole camera.
2. What do we need in order to see a shadow?
3. Why do we need a shiny surface for reflection?
4. Does the direction of shadow change during the day? Does the length of shadow also change from season to season?
5. Differentiate between Image and shadow?
6. Give a pinhole camera description along with the diagram.

