

NCERT Solutions for 6th Class Science: Chapter 10-Motion and Measurement of Distances



IndCareer
Schools



indCareer



indCareer



indCareer

NCERT Solutions for 6th Class Science: Chapter 10-Motion and Measurement of Distances

Class 6: Science Chapter 10 solutions. Complete Class 6 Science Chapter 10 Notes.

NCERT Solutions for 6th Class Science: Chapter 10-Motion and Measurement of Distances

NCERT 6th Science Chapter 10, class 6 Science Chapter 10 solutions

Page No: 106

1. Give two examples each, of modes of transport used on land, water and air.

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-science-chapter-10-motion-and-measurement-of-distances/>

Answer

Modes of transport used on land - Buses and Trains.

Modes of transport used on water - Ships and Boats.

Modes of transport used on air - Helicopters and Aeroplanes.

2. Fill in the blanks:

(i) One metre is _____ cm.

(ii) Five kilometre is _____ m.

(iii) Motion of a child on a swing is _____.

(iv) Motion of the needle of a sewing machine is _____.

(v) Motion of wheel of a bicycle is _____.

Answer

(i) One metre is 100 cm.

(ii) Five kilometre is 5000 m.

(iii) Motion of a child on a swing is periodic motion.

(iv) Motion of the needle of a sewing machine is periodic motion.

(v) Motion of wheel of a bicycle is circular motion.

3. Why can a pace or a footstep not be used as a standard unit of length?**Answer**

The length of pace or a footstep varies from person to person. If the length of footstep will be used as standard unit for measurement of length then two measured quantity will not be same. Hence, footstep or pace is not a constant quantity and cannot be used as a standard unit of length.

4. Arrange the following lengths in their increasing magnitude:

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-science-chapter-10-motion-and-measurement-of-distances/>

1 metre, 1 centimetre, 1 kilometre, 1 millimetre.

Answer

1 millimetre > 1 centimetre > 1 metre > 1 kilometre

5. The height of a person is 1.65 m. Express it into cm and mm.

Answer

$$1.65 \text{ m} = 1.65 \times 100 \text{ cm} = 165 \text{ cm}$$

$$1.65 \text{ m} = 1.65 \times 100 \times 10 \text{ mm} = 1650 \text{ mm}$$

6. The distance between Radha's home and her school is 3250 m. Express this distance into km.

Answer

$$1 \text{ km} = 1000 \text{ m}$$

$$3250 \text{ m} = 3250/1000 \text{ km} = 3.25 \text{ km}$$

7. While measuring the length of a knitting needle, the reading of the scale at one end is 3.0 cm and at the other end is 33.1 cm. What is the length of the needle?

Answer

The actual count of the length of the needle start from 3.0 cm instead of 0 cm. Thus, the actual length of the needle is $(33.1 - 3.0) \text{ cm} = 30.1 \text{ cm}$

8. Write the similarities and differences between the motion of a bicycle and a ceiling fan that has been switched on.

Answer

Similarities:

- (i) Both the ceiling fan and the wheels of a bicycle show circular motion.
- (ii) Both are fixed at point.

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-science-chapter-10-motion-and-measurement-of-distances/>

Differences:

(i) A bicycle shows rectilinear motion while a ceiling fan does not.

9. Why could you not use an elastic measuring tape to measure distance? What would be some of the problems you would meet in telling someone about a distance you measured with an elastic tape?

Answer

An elastic tape is flexible and can be stretched. Thus, each time it will give different readings for the same length measured. Therefore, it is impossible to measure accurate distance from an elastic measuring tape.

10. Give two examples of periodic motion.

Answer

Two examples of periodic motion:

(i) Motion of a pendulum clock.

(ii) Motion of a swing.



<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-science-chapter-10-motion-and-measurement-of-distances/>

Chapterwise NCERT Solutions for Class 6 Science :

- Chapter 1 Food: Where Does It Come From?
- Chapter 2 Components of Food
- Chapter 3 Fibre to Fabric
- Chapter 4 Sorting Materials Into Groups
- Chapter 5 Separation of Substances
- Chapter 6 Changes Around Us
- Chapter 7 Getting to Know Plants
- Chapter 8 Body Movements
- Chapter 9 The Living Organisms and Their Surroundings
- Chapter 10 Motion and Measurement of Distances
- Chapter 11 Light, Shadows and Reflection
- Chapter 12 Electricity and Circuits
- Chapter 13 Fun with Magnets
- Chapter 14 Water
- Chapter 15 Air Around Us
- Chapter 16 Garbage In, Garbage Out

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-science-chapter-10-motion-and-measurement-of-distances/>

About NCERT

The National Council of Educational Research and Training is an autonomous organization of the Government of India which was established in 1961 as a literary, scientific, and charitable Society under the Societies Registration Act. The major objectives of NCERT and its constituent units are to: undertake, promote and coordinate research in areas related to school education; prepare and publish model textbooks, supplementary material, newsletters, journals and develop educational kits, multimedia digital materials, etc. Organise pre-service and in-service training of teachers; develop and disseminate innovative educational techniques and practices; collaborate and network with state educational departments, universities, NGOs and other educational institutions; act as a clearing house for ideas and information in matters related to school education; and act as a nodal agency for achieving the goals of Universalisation of Elementary Education. In addition to research, development, training, extension, publication and dissemination activities, NCERT is an implementation agency for bilateral cultural exchange programmes with other countries in the field of school education. Its headquarters are located at Sri Aurobindo Marg in New Delhi. [Visit the Official NCERT website](https://www.ncert.nic.in/) to learn more.

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-science-chapter-10-motion-and-measurement-of-distances/>