



PHYSICS

BOOKS - MBD -HARYANA BOARD

MOTION AND MEASUREMENT OF DISTANCES

Example

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



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2. Fill in the blank

One metre is _____ cm.



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3. Fill in the blank

Five kilometre is _____ m



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4. Fill in the blank

Motion of a child on a swing is _____



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5. Fill in the blank

Motion of the needle of a sewing machine is



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6. Fill in the blanks

Motion of a wheel on a bicycle is _____ motion



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7. Arrange the following lengths in their increasing magnitude:

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



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



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



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10. 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?



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11. What are the similarities and differences between the motion of a bicycle and a ceiling fan that has been switched on



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12. Why would you not like to use a measuring tape made of an elastic material like rubber to measure distance? What would be some of the problems you would meet in telling someone about a distance you measured with such a tape?



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13. Give two examples of periodic motion.



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14. What is meant by measurement ?



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15. What is a measure ?



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16. When the distance between two cities is great. Which unit of measurement is chosen

?



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17. How many metres are there in a kilometre ?



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18. What are requirements for accurate measurement ?



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19. How many kilograms are there in a quintal ?



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20. Name four basic quantities that need measurements .



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21. What is meant by area ?



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22. What type of motion do the vehicles on a straight road have ?



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23. What type of motion does the wheel of a bicycle have ?



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24. Name the three types of motion.



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25. Give two examples of simple linear motion.



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26. Fill in the blanks

Motion of a needle on a sewing machine is

_____ motion





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27. Give examples of Rotatory motions.



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28. Which type of motion is performed by the Earth when it goes around the Sun ?



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29. What type of motion is produced by a ceiling fan ?



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30. What is periodic motion ? Give some of its examples.



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31. Write any two precautions neede while using a metre scale.



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32. When is it necessary to take accurate measurements ?



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33. Why is it necessary to have standard units of measurement ?



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34. On What factors does the accuracy in measurement depend ?



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35. How can length of curved lines be measured ?Explain.



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36. Name two types of motions of the Earth.



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37. As a railway engine moves along the tracks, its wheels go round and round while the train

moves forward and the piston moves back and forth. What is the type of motion around us.



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38. Which things were being used for measurement in ancient times ?



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39. State the precautions which should be taken while using a metre scale to measure

length.



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40. The standard unit of length is -

A. Foot

B. Handspan

C. Metre

D. Kilogram

Answer:



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41. 1 Kilometre =

A. 100 m

B. 1000 m

C. 100 cm

D. 10 mm

Answer:



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42. Length of curved line can be measured by-

A. Tailors Tape

B. metre scale

C. Thread

D. None of these.

Answer:



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43. The means of transportation used in water surface is -

A. Aeroplane

B. Boat

C. Train

D. None of these.

Answer:



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44. Fill in the blank

Motion of a child on a swing is_____

- A. Circular motion
- B. Periodic motion
- C. Linear motion.
- D. Periodic an Linear

Answer:



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45. 1 millimetre is what part of one metre ?

A. $1/1000$ th

B. $1/100$ th

C. $1/10000$ th

D. None of these.

Answer:



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46. To express the distance between Delhi and Mumbai, the standard unit of length used would be -

A. Metre

B. Quintal

C. Kilometer

D. Kilogram.

Answer:



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47. The motion of bullet leaving the gun is-

A. Linear

B. Circular

C. Periodic

D. None of these.

Answer:



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48. The motion of earth around the sun is-

- A. Linear motion
- B. Periodic motion
- C. Oscillatory motion
- D. None of these.

Answer:



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49. The precaution while measuring length with metre scale is-

- A. Correct position of eye
- B. Correct position of eye and proper end of metre scale.
- C. Only correct end of meter scale
- D. None of these.

Answer:



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50. The SI unit of length is-

A. Kilometre

B. Centimetre

C. Metre

D. Inch.

Answer:



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51. is an example of rectilinear motion-

- A. Motion of a car on road
- B. Oscillations of a pendulum
- C. Motion of branch of a tree
- D. None of these.

Answer:



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52. Which one of the following is an example of periodic motion?

A. An apple falling from a tree

B. The motion of blades of fan

C. The motion of a car on road

D. The motion of earth.

Answer:



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