



PHYSICS

BOOKS - MBD

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 blanks :

One metre iscm.



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3. Fill in the blanks :

Five kilometre is m.



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4. The motion of a child on a swing is -



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5. Fill in the blanks :

Motion of a needle of a sewing machine is

..... .



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



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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. Write 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 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 ?



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13. Give two example 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. A tailor's feet sew a cloth, on a sewing machine. Which type of motion they perform?



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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 few examples .



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



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32. Why 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. What are requirements for accurate measurement ?



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35. Length of curved line can be measured by-



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36. Name two types of motions of the Earth.



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



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



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39. The standard unit of length is -

A. Foot

B. Handspan

C. Metre

D. Kilogram

Answer:



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40. 1 Kilometre =

A. 100 m

B. 1000 m

C. 100 cm

D. 10 mm

Answer:



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41. 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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42. The means of transportation used in water surface is -

A. Aeroplane

B. Boat

C. Train

D. None of these.

Answer:



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43. The 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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44. 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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45. 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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46. The motion of bullet leaving the gun is-

A. Linear

B. Circular

C. Periodic

D. None of these.

Answer:



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47. 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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48. The precaution while measuring length with metre scale is-

A. (A) Correct position of eye

B. (B) Correct position of eye and proper end of metre scale.

C. (C) Only correct end of meter scale

D. (D) None of these.

Answer:



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49. The SI unit of length is-

A. Kilometre

B. Centimetre

C. Metre

D. Inch.

Answer:



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50. 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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51. 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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