

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Motion and Measurement of Distances

Q1. Write the similarity and dissimilarity between motion of a bicycle and a ceiling fan that has been switched on.

Ans. \_\_\_\_\_  
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Q2. How can we measure the length of a curved line?

Ans. \_\_\_\_\_  
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## Motion and Measurement of Distances

Q1. Write the similarity and dissimilarity between motion of a bicycle and a ceiling fan that has been switched on.

Ans.

<b>Similarity</b>	
<u>Bicycle</u>	<u>Ceiling fan</u>
1. Wheels have circular motion about their respective fixed point.	1. Blades have circular motion about their respective fixed point.
<b>Dissimilarity</b>	
1. Bicycle has linear/rectilinear motion.	1. Ceiling fan do not have linear /rectilinear motion. It is fixed at one place.

Q2. How can we measure the length of a curved line?

Ans. We can use a thread to measure the length of a curved line.

### Steps to measure the length of a curved line

- i. Put a knot on the thread near one of its ends and place this knot on the one of its ends.
- ii. Now, holding the thread at one end with one hand, place the thread along the curved line, keeping it taut using your fingers and thumb.
- iii. Now make a mark on the thread where it reaches the other end.
- iv. Finally, place the thread along a metre scale and measure the length between the knot and the marked point. This gives the length of the curved line.