

Post-test (After the Lesson)

This test is designed to check whether students have mastered the skills of interpretation and analysis and are able to distinguish between uniform and non-uniform motion after the lesson.

Task 1.

Based on the graph showing the relationship between distance and time $s(t)$, write down how to calculate the speed of a moving body.

Task 2.

Answer the questions.

1. How does the frequency of time and distance measurements affect the accuracy of determining the speed?

2. How does the frequency of time and distance measurements affect the shape of the graph?

This material is provided by the [EMPE Team](#), responsible institution: UKEN University of Krakow



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Task 3.

Give two examples of situations from everyday life in which motion is not uniform. Explain why.

Task 4.

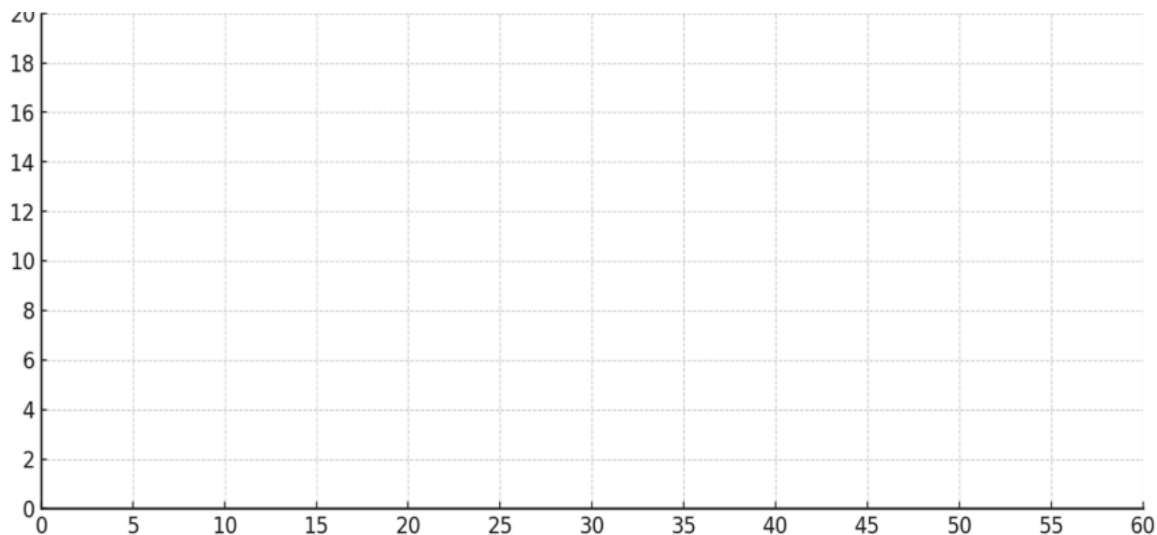
Based on the information from the lesson, describe the difference between uniform and non-uniform motion.

Note: you may refer to the concept of acceleration.



Task 5.

Draw a sketch of the graph showing the relationship between velocity and time $v(t)$ for uniform rectilinear motion.



Describe the most important feature of this graph.

