

Name and surname ..... class.....

## WORKSHEET 1

### Activity 1.

Draw a graph showing my distance from the wall, taking into account all stages of my movement:

*I begin by standing still for a short moment.*

*Then I walk toward the wall at a steady, moderate pace, and after reaching a point near the wall, I walk away from it at the same pace.*

*Again, I stop and stand still for a moment.*

*Next, I walk toward the wall at a steady, fast pace, and then walk away from the wall at the same fast pace.*

*I pause and stand still again.*

*Finally, I walk toward the wall at a steady, slow pace, and then walk away from it at the same slow pace.*

*At the end, I stand still for a moment once more.*

**Your graph – first attempt:**



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**Redraw the shape of the graph made by the sensor:**



Write down what you notice.

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### Graph analysis:

Mark the successive stages of the movements using three different colours:

- we are standing, so the distance from the wall is the same,
- the distance from the wall is decreasing,
- the distance from the wall is increasing.



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## Activity 2. Slowly – quickly TOWARDS the wall.

*Two people walk TOWARDS the wall at the same pace, but one slowly and the other quickly. Draw what the graphs will look like.*

Use **two different colours** to draw both graphs.

Use the selected colours to highlight their descriptions.

**Person 1 walks towards the wall slowly – line named s**

**Person 2 walks towards the wall quickly – line named q**



In your own words, explain how you can tell from the graph when the movement towards the wall was slow and when it was fast.

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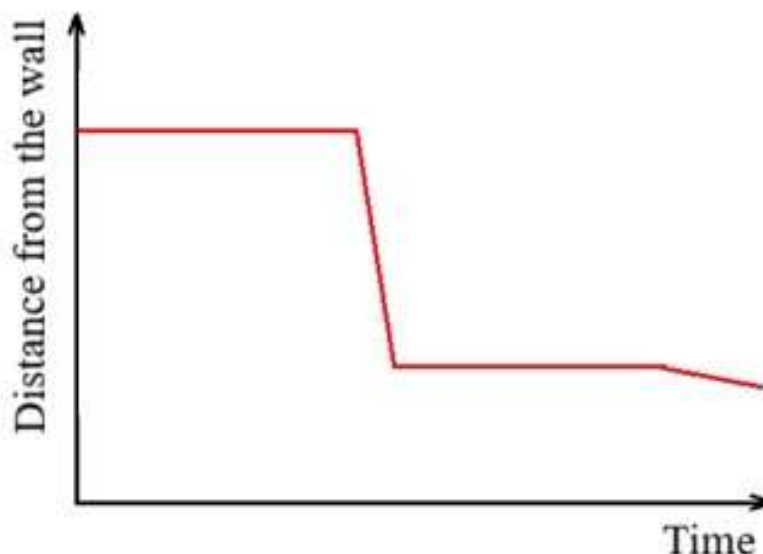


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### Activity 3.

The graph shows what the other movement looked like:



How many parts does the graph consist of? .....

Next to each line, write a number that indicates the next part of the movement.

### Describe this movement.

First, **write down** the number representing the part of the movement you made and **then describe** it using the glossary below:

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### GLOSSARY

the distance does not change

the distance is increasing

I am walking towards the wall

the distance is decreasing

I am moving away from the wall

I am not moving

I am walking slowly

I am walking parallel to the wall

I am walking quickly



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