Worksheet 7

Together with this worksheet, you will receive 10 cards, on which you will find 5 graphs and 5 stories that could be matched with the graphs. **Match the stories with the graphs that represent them. Attention!!!** There could be graphs without a corresponding story. **If you find this kind of graph, invent a story.**

Write your matches, explaining how you chose the stories to be matched with the graphs.
If you found a graph without a story, **write the missing story.**
Make a picture of your matches and send it to the teacher.

We matched graph … with story … because …
We matched graph … with story … because …
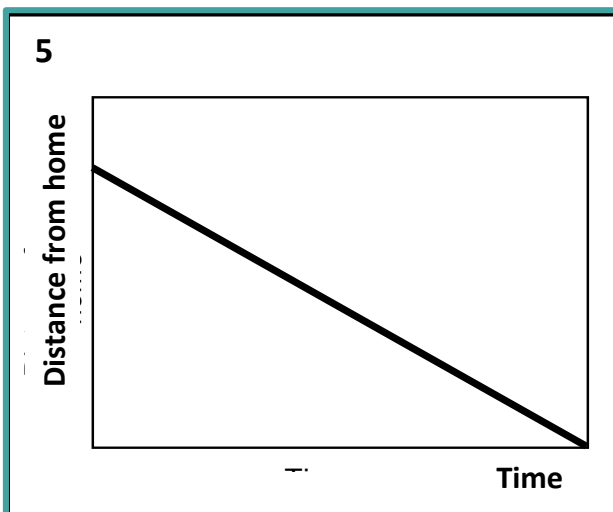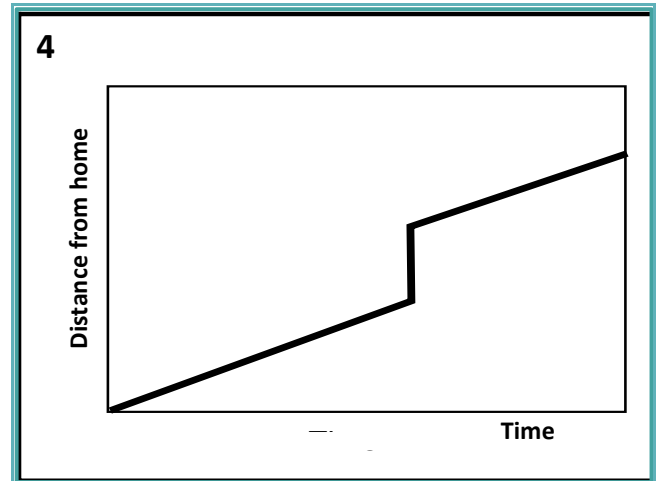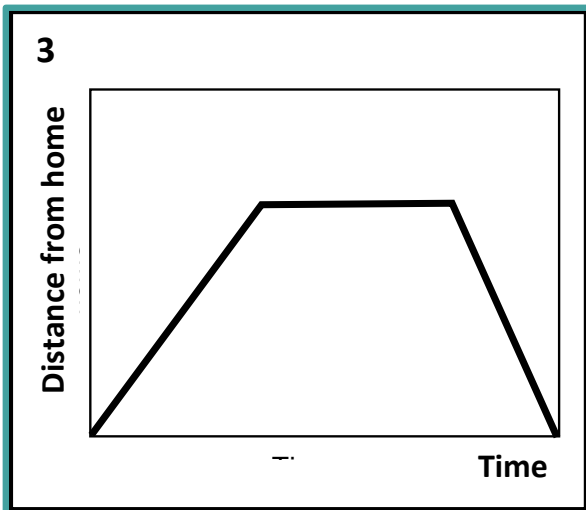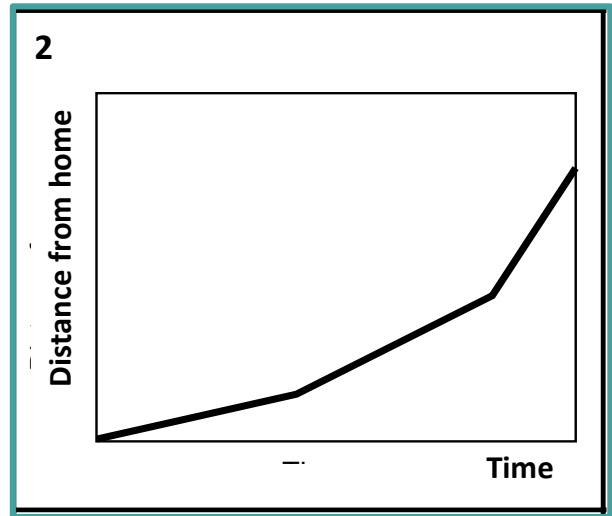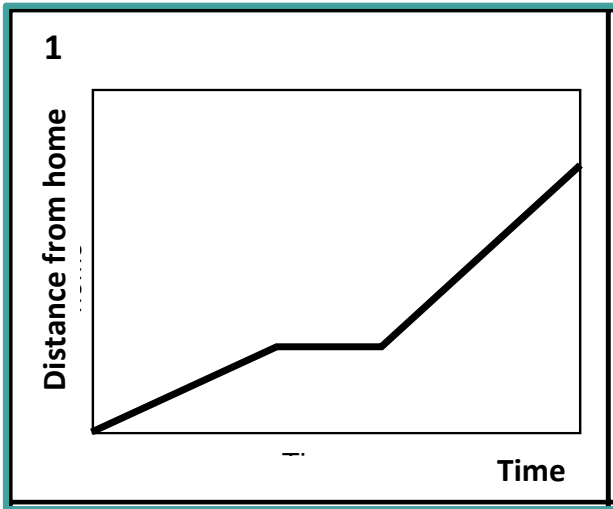We matched graph … with story … because …
We matched graph … with story … because …

No story could be matched with graph …
This is the story, to be matched with this graph, that we invented: …

CARDS – GRAPHS

1

Distance from home

Time

2

Distance from home

Time

3

Distance from home

Time

4

Distance from home

Time

5

Distance from home

Time

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CARDS – STORIES

A) Marco goes out and walk along a road. He stops to check the time and understands that it is late, so he starts running.
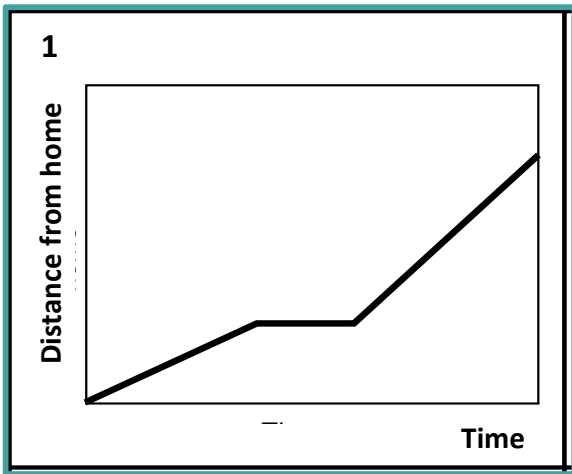
B) Luca goes out to take the train. When he reaches the train station, he sits on a bench while waiting for the train.

C) Alice goes out from the dance school and walk home.

D) This is an impossible graph.

E) Giulia goes out and climbs up the hill in front of her house, at the beginning slowly, then more quickly. After having reached the top of the hill, she runs quickly down the other side.
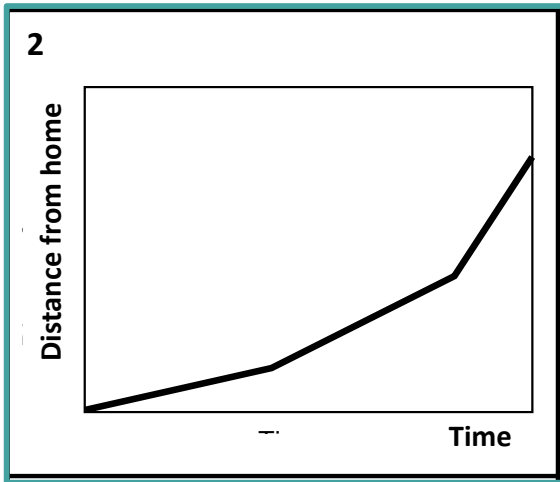
Worksheet 7A – Help to match the Graph 1

1

Distance from home

Time

Observe graph 1.
The second section of the graph is a **horizontal segment.** What does it mean?
The first section of the graph is **less steep** if compared to the third section. What does it mean? **Where is the speed grater?**
After these observations, **can you discard some of the stories?**
What is the story that could be match this graph?
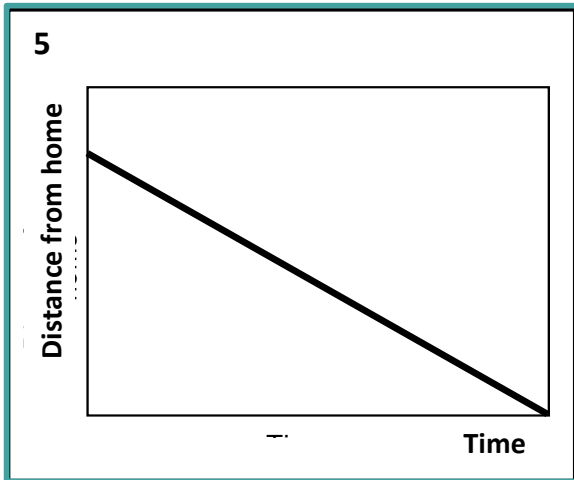
2

Distance from home

Time

Observe graph 2.
The slope, in the three parts of the graph, is increasing. What does it mean? **Is the speed increasing or decreasing?**
After these observations, **can you identify the story that could match this graph?**
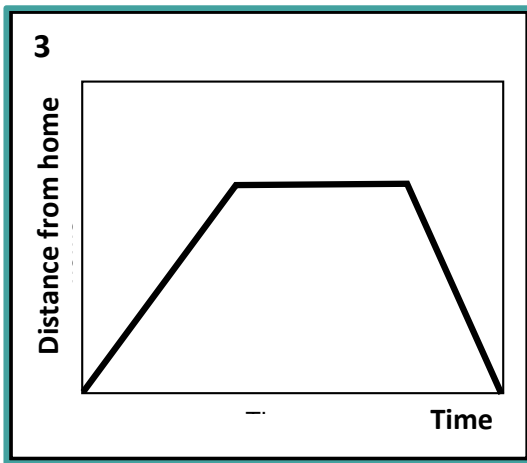
5

Distance from home

Time

> **Observe graph 5.**
> The point (0,0) is not the initial point of the graph. What does it mean? **The person who is moving is going near home or away from home?**
> Do these observations enabled you to identify **the story that could be matched with this graph?**

Worksheet 7D – Help to interpret Graph 3

3

Distance from home

Time

> **Observe graph 3.**
> The second section of the graph is a **horizontal segment**. What does it mean?
> The initial point on the left and the last point on the right are both on the horizontal axis. What does it mean? **Where is the person that is moving at the beginning and at the end of its motion?**
> Do these observations enable you to find a story that could be matched with this graph?