

Name \_\_\_\_\_

## Interpreting graphs

### Objective:

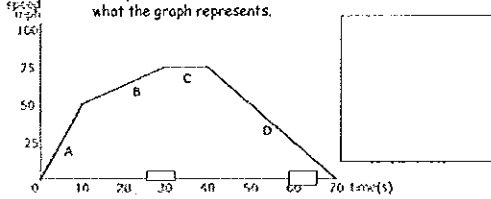
To be able to read and plot graphs of real-life problems.

### What does it show?

Look at this speed time graph.  
Try to work out what this motor bike is doing at each of the points A, B, C and D

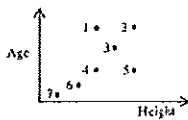
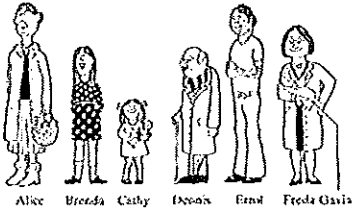


First, look at the axes to see what the graph represents.



### 1. The Bus Stop Queue

Who is represented by each point on the scattergraph, below?

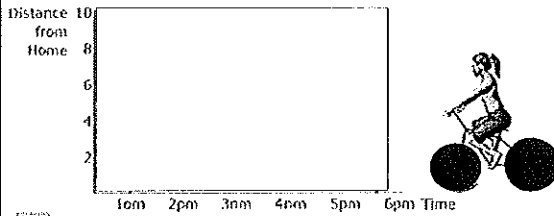


**ALWAYS READ THE LABELS ON THE AXIS!**

### Drawing graphs of real-life situations

Try to draw a graph which reflects this cyclist's journey .

At 1pm she starts off on a journey of 9 miles. She gets there by 2:30pm  
 She stays there for 45 minutes.  
 Then she travels for 3 miles in direction of home which takes 30 minutes.  
 The cyclist then gets a puncture and takes 2hrs to do the last 6 miles home.




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#### Example 1.

You are at home getting ready to go out to your stamp collecting club.

You leave your house and jog the 1000m to the club. You arrive 5 minutes later.

You exchange stamps and chat for 1 hour, then leave for home. It takes you 10 minutes.

Plot a distance time-graph to represent your journey to and from the club.

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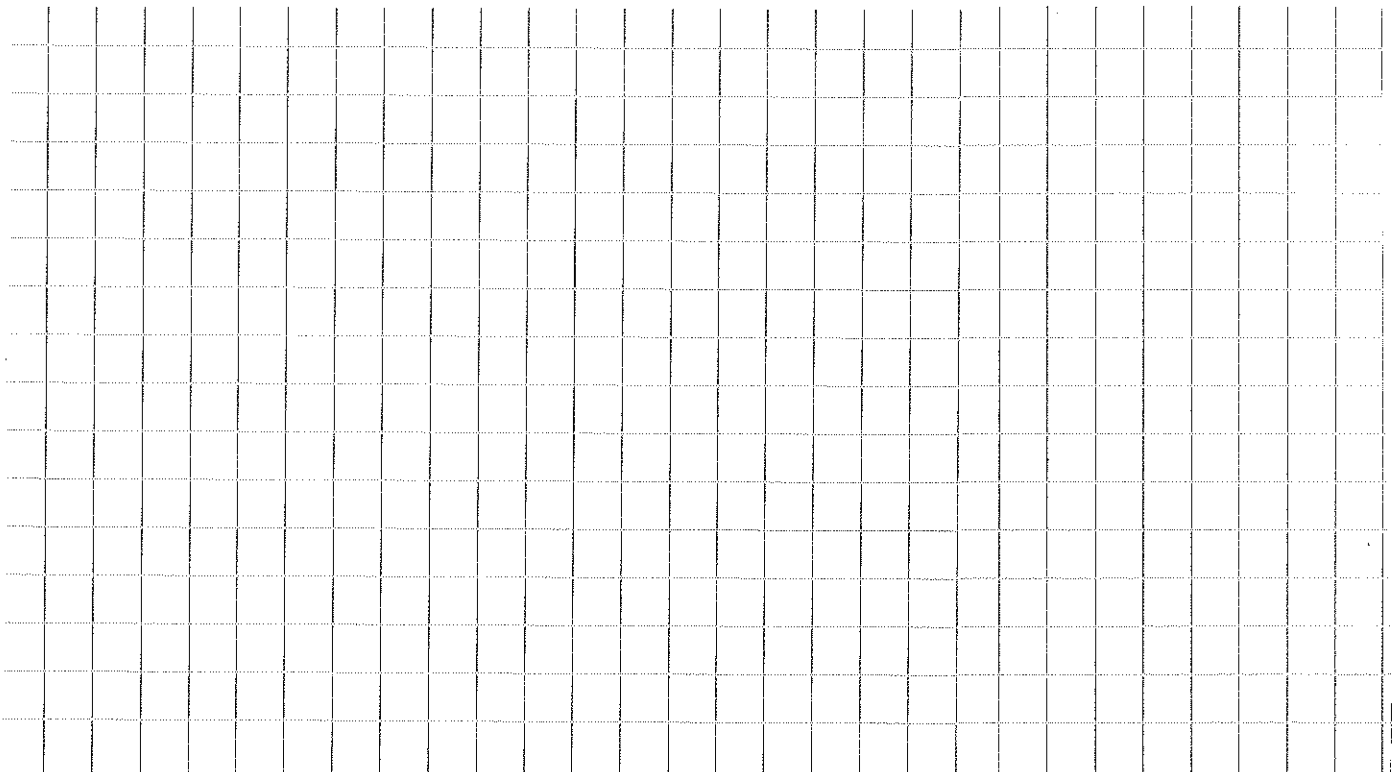
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TRY DRAWING A GRAPH FOR THIS ONE:

You leave your house to visit a friend. On the way, you stop at the local shop for 5 minutes to buy some sweets. You arrive at your friend's house 1.5km, and 15 minutes, after you left home. You stay with your friend for 2 hours before leaving. It takes you 20 minutes to get home.

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Which graph?

Which graph represents this bath being filled, A, B, C or D?

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### Sketching line graphs

Sketch a line graph to show the depth of water against time when water runs steadily from a tap into these jars.

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### Challenge

Write a short situation (like the stamp-club example) and give it to your partner to create an accurate line graph of your situation.

Draw a simple container and ask your partner to sketch a line graph to show how the depth of water would change with time if filled by a steadily flowing tap.