



Read the scenario very carefully.

1. With the expressions select the response that best shows how Jack moved.
2. In your journal write your selection and explain your thinking with an explanation for your answer.



I can explain the difference between constant speed and acceleration.

Using the dot system diagram a description of the motion of the moustrap car in the video.

Imagine that the chassis was dripping oil at a steady rate. what pattern would the drips make?

[http://www.youtube.com/watch?v=VuR3n9S-Usg&feature=player\\_embedded](http://www.youtube.com/watch?v=VuR3n9S-Usg&feature=player_embedded)

(example only)



I can explain the difference between constant speed and acceleration.

Turn to your elbow partner and discuss:

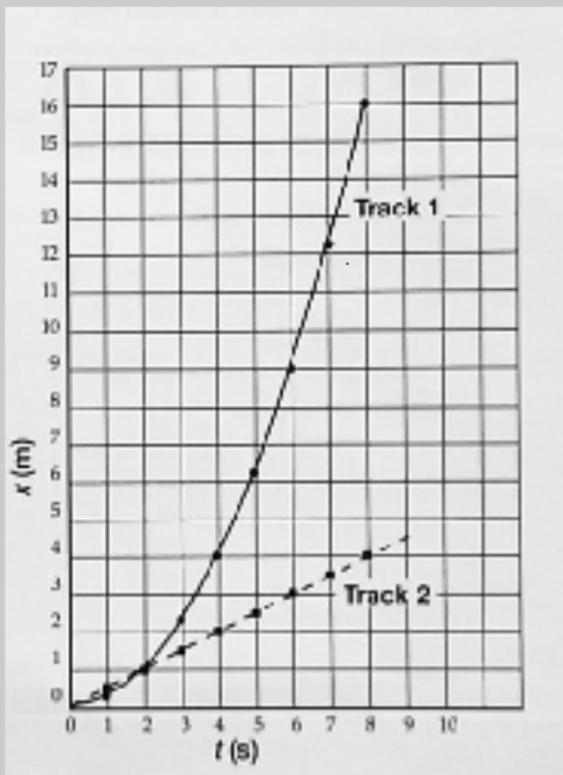
What is constant speed?

What is acceleration?

Record your thinking



I can explain the difference between constant speed and acceleration.



Which track shows constant motion?

Which track shows acceleration?

Explain.



I can explain the difference between constant speed and acceleration.



Describe the motion in this video clip.

Constant motion or acceleration?

Using the dot system, diagram a description of the motion of the 2 girls.



I can explain the difference between constant speed and acceleration.



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I can explain the difference between constant speed and acceleration.

Vocabulary: add to your glossary

Acceleration is a change in speed over time.  
represented by the letter  $a$



I can explain the difference between constant speed and acceleration.

- If we roll a car down a hill will it move at constant velocity or will it accelerate?
- Does the steepness of the hill make a difference in how the car moves?

Write an investigation to answer the second prompt.

- question
- hypothesis
- variables
- materials
- diagram

This is the materials list

- 1 ramp
- 1 stand
- 1 dot car
- long paper
- 1 Sharpie
- 1 measuring tape



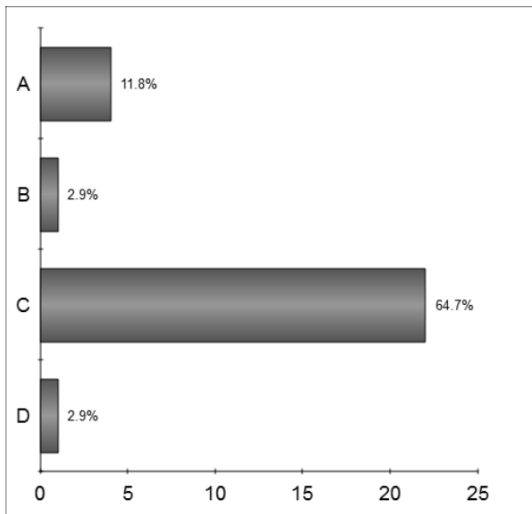
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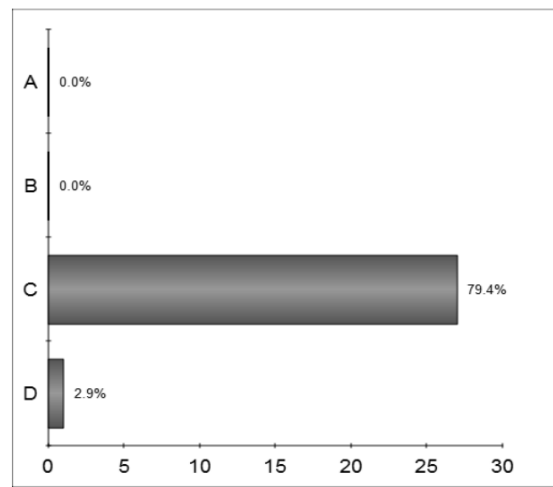


I can explain the difference between constant speed and acceleration.

### period 3 pre-assess

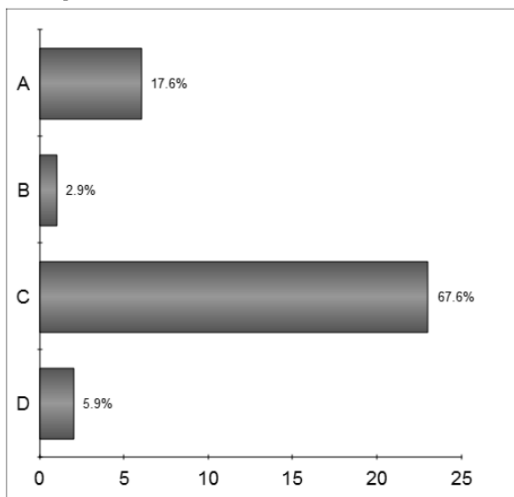


### Post assessment

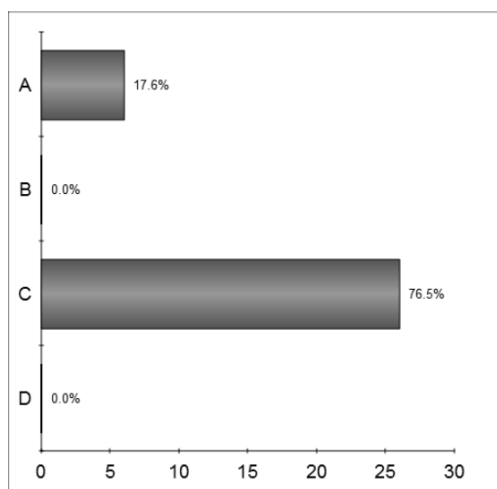


I can explain the difference between constant speed and acceleration.

### pre-assessment P. 4

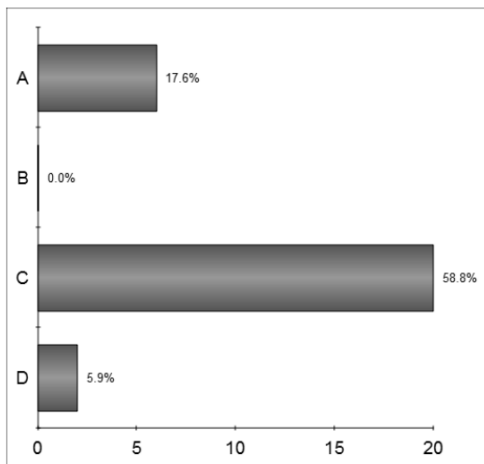


### Post -assessment

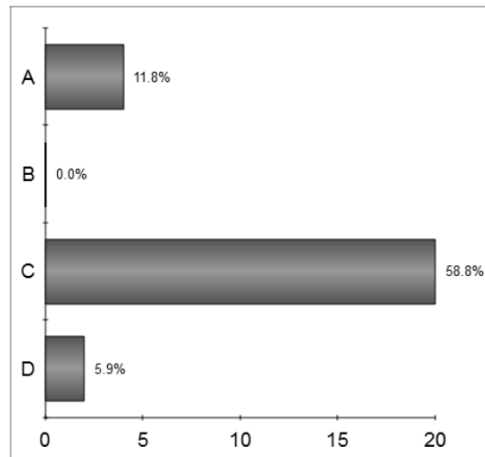


I can explain the difference between constant speed and acceleration.

## Period 1 pre-assessment

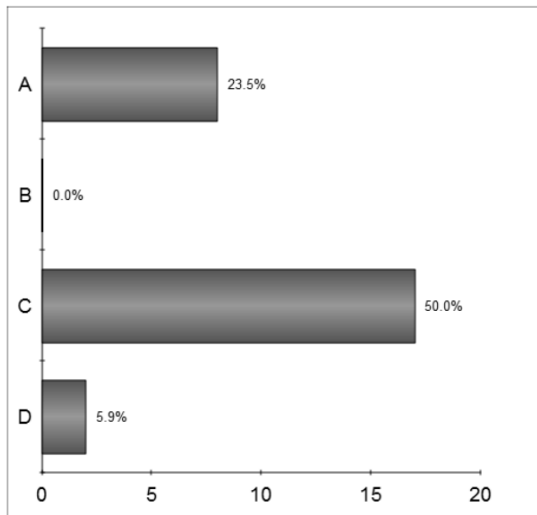


## Period 1 post assessment

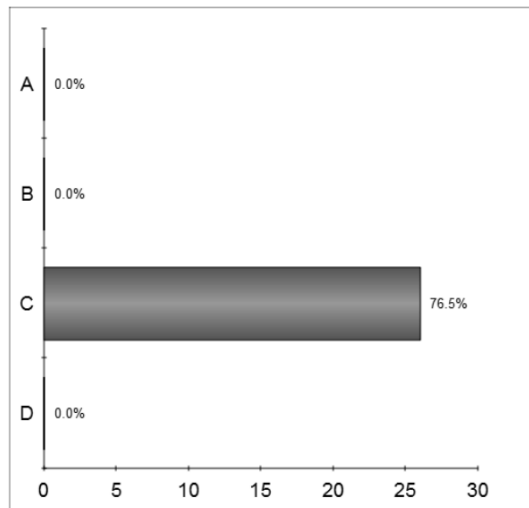


I can explain the difference between constant speed and acceleration.

## Pre-assessment period 2



## Post- assessment period 2



I can explain the difference between constant speed and acceleration.