Distance-time graphs

You have learned in class how to interpret distance-time graphs. This worksheet tests how well you understand the content that has been covered.

You must write the heading Distance-Time Test in your exercise book then answer the following questions.

Q1. Identify the one statement that is correct when referring to distance-time graphs

  A. All straight lines indicate regions of constant speed.
  B. Downwards curved lines indicate that the object is slowing down.
  C. Downwards straight lines indicate times when the object is going downhill.
  D. Upwards straight lines indicate times when the object is speeding up.

Q2. Put the following descriptions in correct order of their speed (fastest first, slowest last). You must include your calculations to prove why your order is correct.

  A. An object that moves 25 m in 0.2 s
  B. An object that moves 39 cm in 3 ms
  C. An object that moves 1420 km in 2.75 hours
  D. An object that moves 9.7 km in 1.8 minutes

Q3. Calculate the speed in regions A, B C and D for the distance-time graph shown below. You must show your working out.