Skills: knowledge, numeracy

1. Use the words in the box below to fill in the missing gaps in the paragraph:

   Speed is the _______________ a vehicle travels each second. The standard units for speed are _______________ or _______________.

   - m/s
   - distance
   - metres per second

2. State the formula for speed in words and symbols.

3. John decided to take a walk in the playground. He plotted the graph below to show how his distance changed with time during the walk.

   ![Distance vs time graph](image)

   Use the graph to answer the following questions:

   a. At what time did John stop walking and talk to Brianna?

   b. How many seconds did their conversation take?

   c. Calculate John's speed during the first 10 seconds. Show your working.

   d. Calculate John's speed after he started moving again.

   e. What was John's total walking distance?

   f. Calculate John's total displacement. Show all working.

   g. Calculate John's speed on the way back. Show all working.

   h. Calculate the average speed for the whole journey.