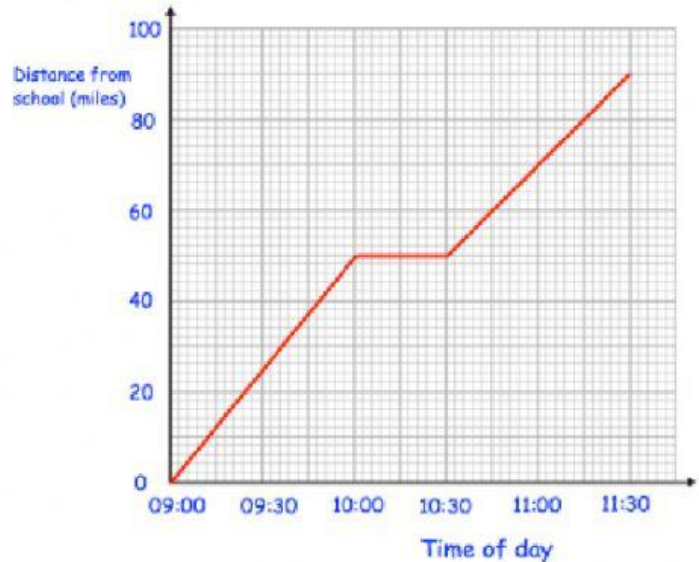


Success Criteria - I can analyze and answer comprehension questions for a displacement-time graph and a velocity-time graph and describe the motion of an object.

Speed-Distance-Time Graph Analysis Problems

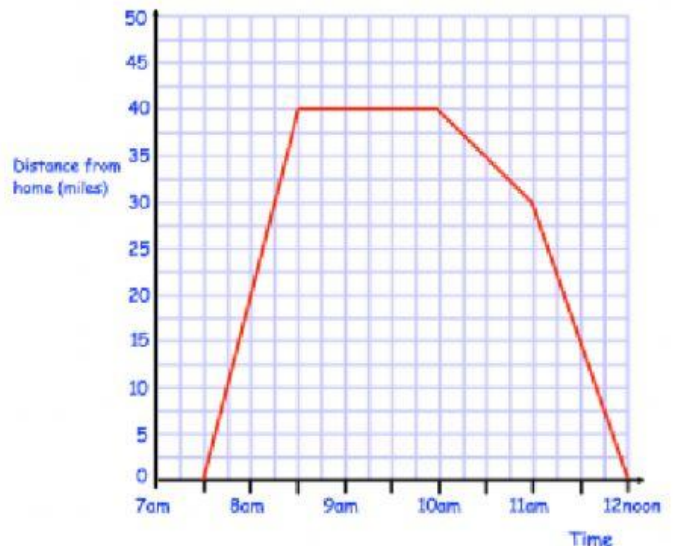
Question 1: The distance-time graph shows class 8A's journey to the zoo.
They stopped for a picnic on the way to the zoo.

- (a) What time did the bus leave school?
- (b) What time did they stop for a picnic?
- (c) How far had they travelled when they stopped for a picnic?
- (d) How long did they stop for?
- (e) What time did they arrive at the zoo?
- (f) How far is the zoo from school?



Question 2: Emma travelled to her Grandmother's house and back.
The distance-time graph shows information about her journey.

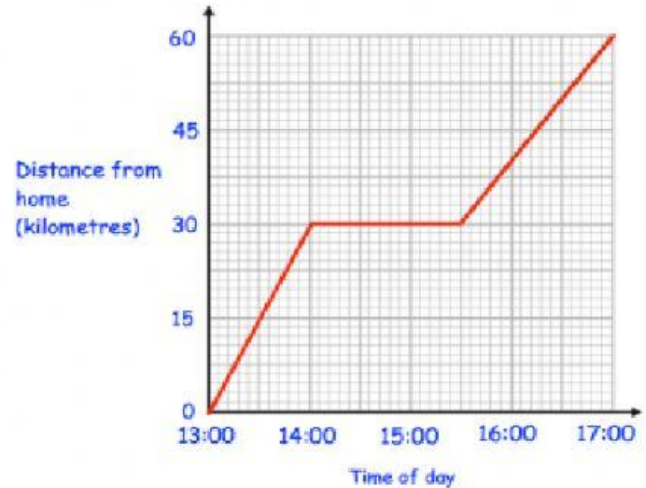
- (a) What time did Emma begin her journey?
- (b) How far was Emma from home at 8am?
- (c) How long did Emma stay at her Grandmother's house?
- (d) What time did Emma leave her Grandmother's house?
- (e) How far was Emma from home at 11:45?
- (f) How far did Emma travel in total?



Success Criteria - I can analyze and answer comprehension questions for a displacement-time graph and a velocity-time graph and describe the motion of an object.

Question 4: Ben drove 60 kilometres, from his home to Liverpool. He stopped and visited his friend Tim on the way.

- (a) Work out Ben's speed for the first part of his journey.
- (b) How long did Ben spend visiting Tim?
- (c) Work out Ben's speed for the last part of his journey.



Question 5: Laura goes for a cycle from her house to the post office, 4km away.

- (a) How long did it take Laura to cycle to the post office?
- (b) Work out Laura's speed cycling to the post office.
- (c) How long did Laura spend at the post office?
- (d) Work out Laura's speed cycling back home.

