## **SCIENCE 1.1**

## **ANSWERS**

## WORKSHEET TWO

## **DISTANCE-TIME GRAPHS**

1. (a) Any straight line e.g.

(b) Line curving upwards e.g.

(c) Line starting to curve downwards e.g.

(d) Second constant speed
line must be steeper than
first. e.g.

- 2. (a) A. Constant Speed (slower)
  - B. Stationary
  - C. Constant Speed (faster)

What distance has been travelled after 5 seconds? 10 m after 8 seconds? 10 m after 12 seconds? 18 m

SECTION A v = d/t v = 10/5  $v = 2 \text{ ms}^{-1}$ 

SECTION B v = d/t v = 0/3  $v = 0 \text{ ms}^{-1}$ 

SECTION C v = d/t v = 8/4  $v = 2 ms^{-1}$ 

v = d/t v = 18/12  $v = 1.5 \text{ ms}^{-1}$ 

Speed in section  $C = 2 \text{ ms}^{-1}$ 

Distance to travel to reach total of 40 m = 22 m

t = d / v t = 22/2 t = 11 s

(23 seconds in total)

Time

Distance

Time	
Distance	
Time	
Distance	
Time	
Distance	