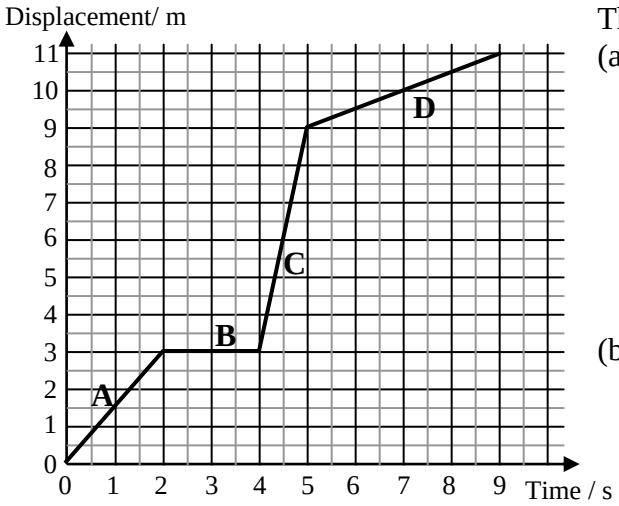
PHYSICS 2.4 **Name:**_____

WORKSHEET THREE **REVIEW OF GRAPHS OF MOTION #1**

DISPLACEMENT TIME GRAPHS

1. 

The graph for a journey is shown.

(a) Calculate the velocity for each section.

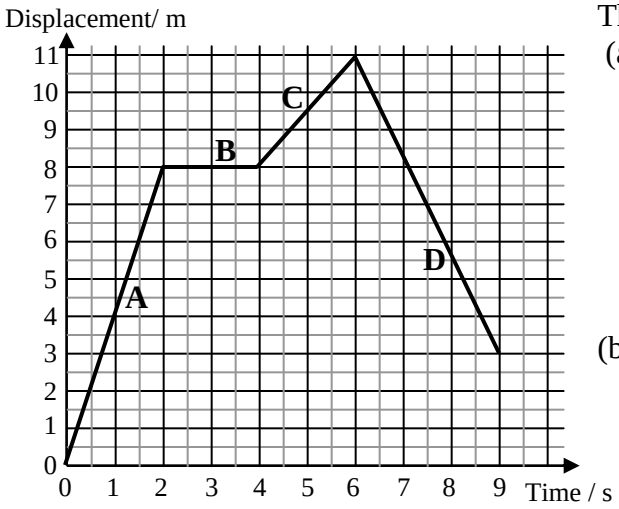
A _____

B _____

C _____

D _____

(b) At what time is the moving object 6 m from the start?_____

2. 

The graph for a journey is shown.

(a) Calculate the velocity for each section.

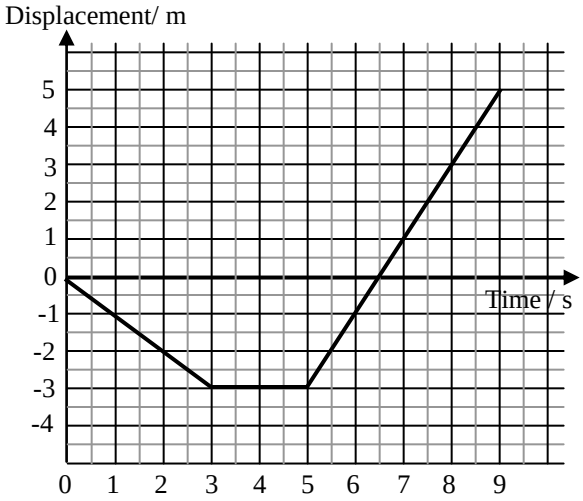
A _____

B _____

C _____

D _____

(b) How far from the starting position is the moving object after 9s? _____

3. 

The graph for a journey is shown.

(a) Calculate the velocity for each section.

0-3s _____

3-5s _____

5-9s _____

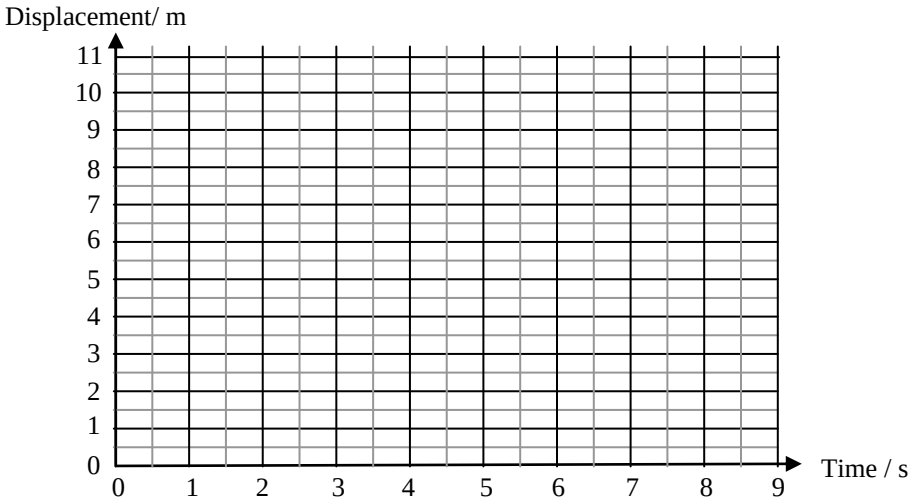
(b) What distance has been travelled in 9 s?

_____

4. A journey was recorded by the following displacement-time data.

Displacement from start (m)	0	5	10	10	6	6	5	4	3
Time from start (s)	0	1	2	3	4	5	6	7	8

(a) Graph this journey data on the grid below.



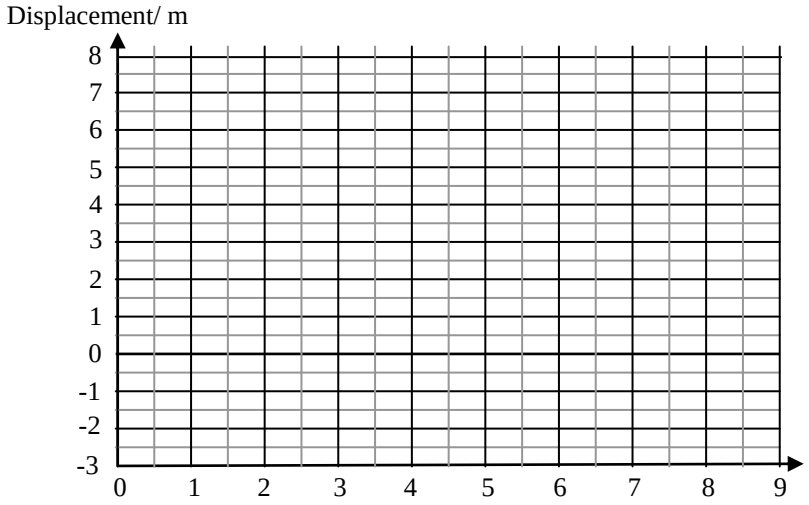
(b) At what times is the object moving away from the start position? _____

(c) At what times is the object moving towards the start position? _____

(d) Calculate the velocity during time 6-8 s. _____

5. A journey is recorded by the following displacement-time data.

Displacement from start (m)	0	3	8	8	4	0	-3	-3	0
Time from start (s)	0	1	2	3	4	5	6	7	8



(a) Draw the graph.

(b) Where is the object at time 6s

_____

(c) At what times is the object at the starting positions?

_____

_____