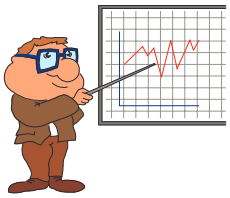
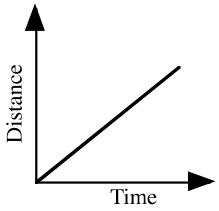
Distance/Time Graphs 1.

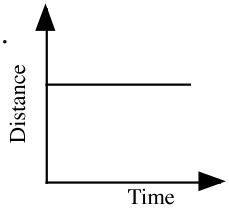


A). Copy each graph and describe the journey.

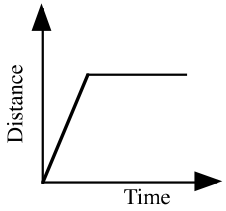
1).



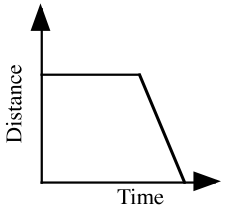
2).

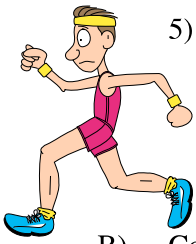


3).

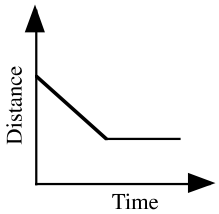


4).

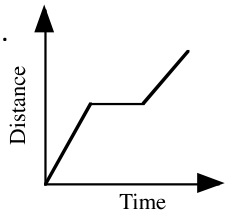




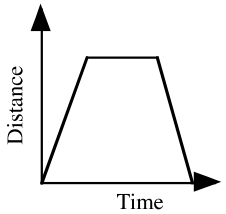
5).



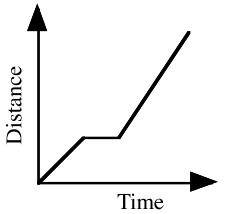
6).



7).

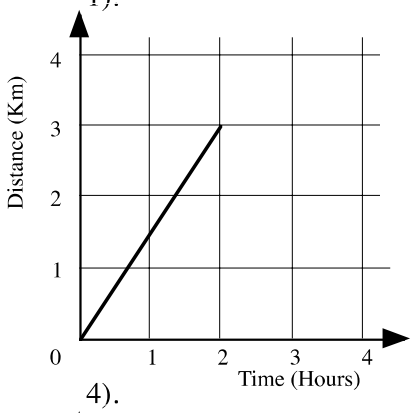


8).

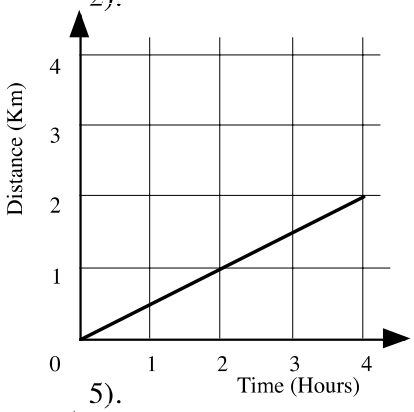


B). Copy the graphs on to squared paper.
Find the speed for each of the following journeys:

1).



2).



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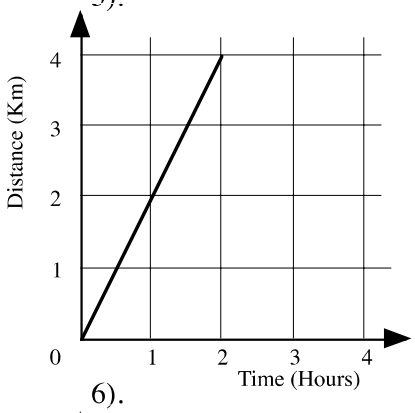
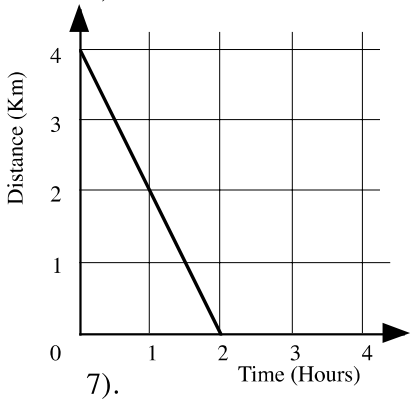
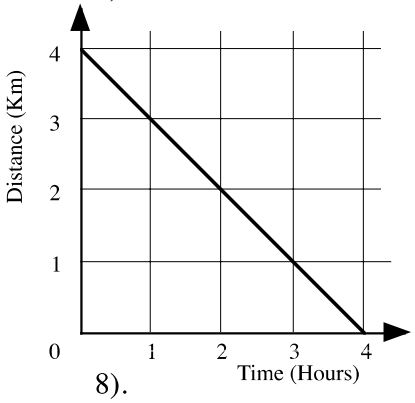


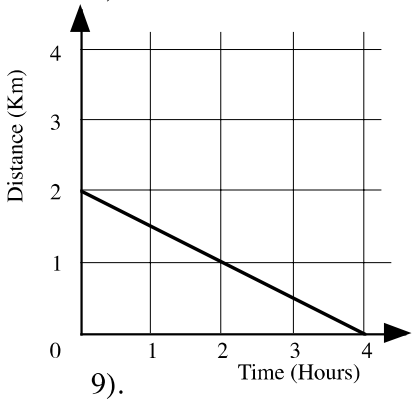
4).



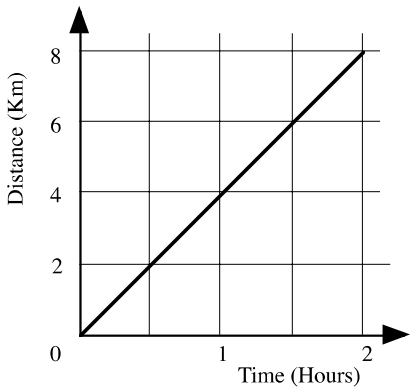
5).



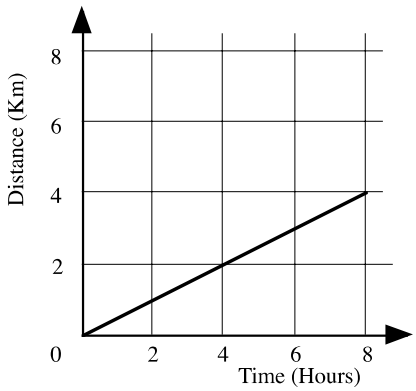
6).



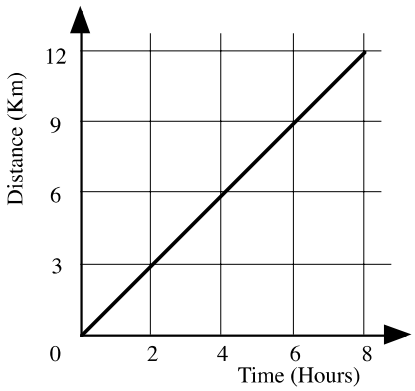
7).



8).



9).



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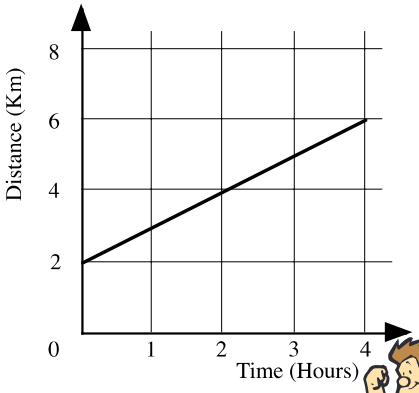
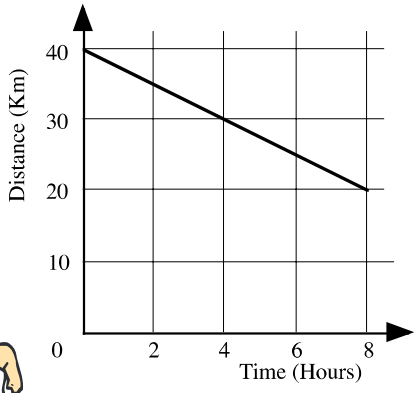
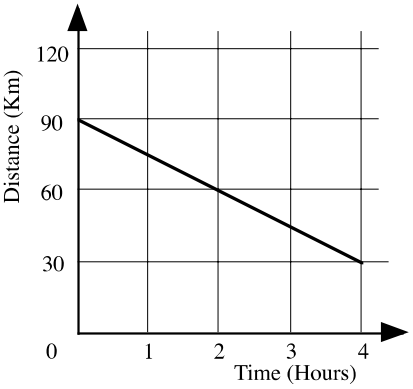


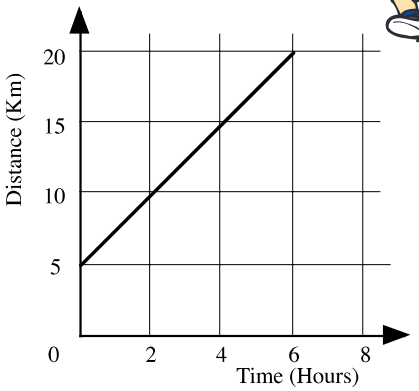
11).



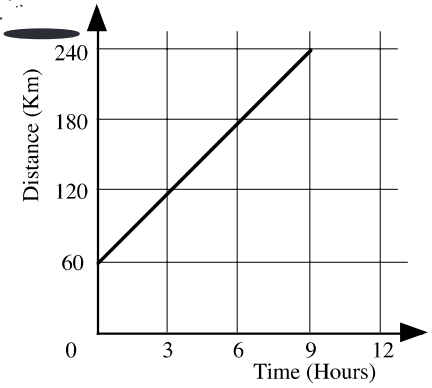
12).



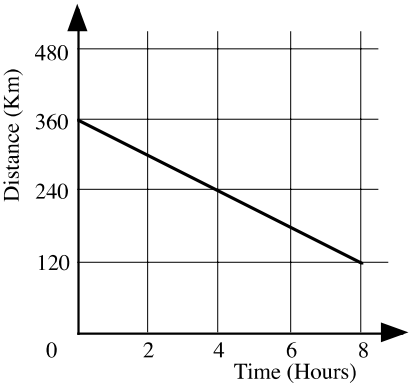
13).



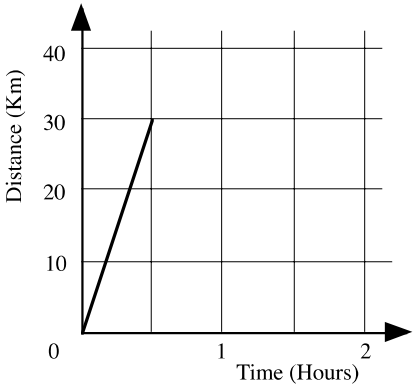
14).



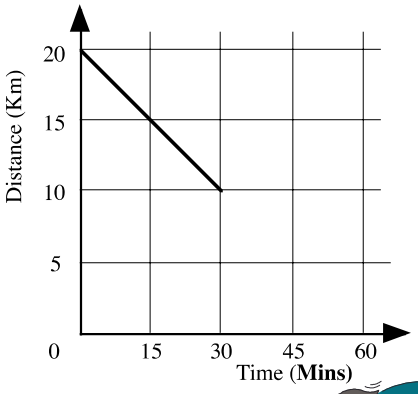
15).



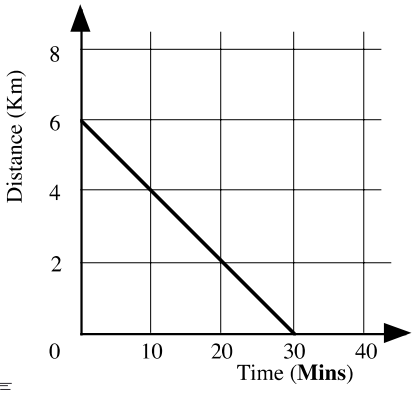
16).

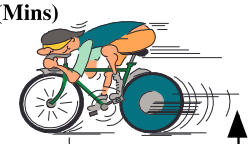


17).

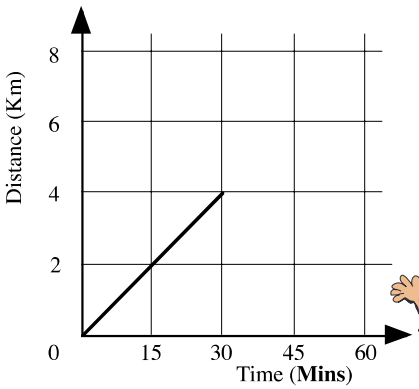


18).





19).



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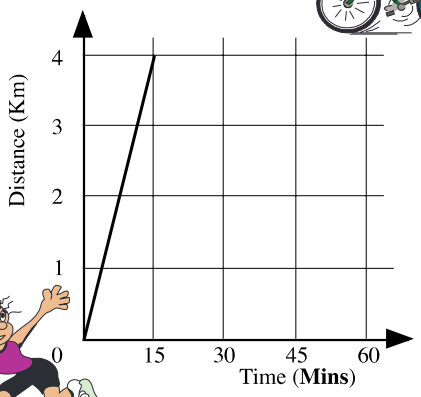
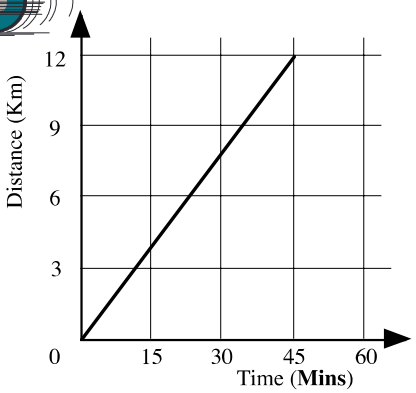
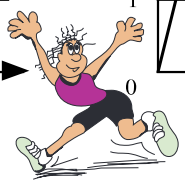


21).

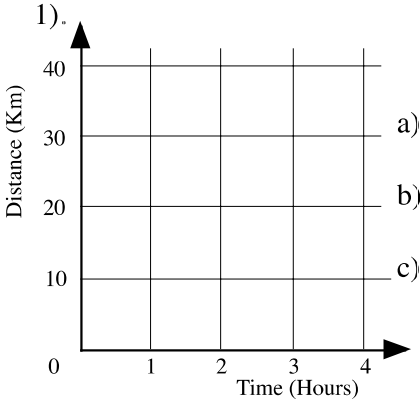




Distance/Time Graphs 2.

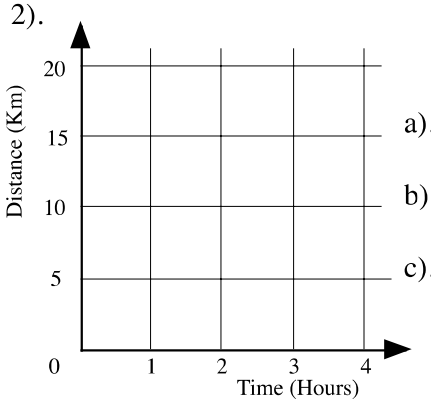
A). For each question copy the axes shown on to squared paper.
Draw a line that represents each of the speeds shown.

1).



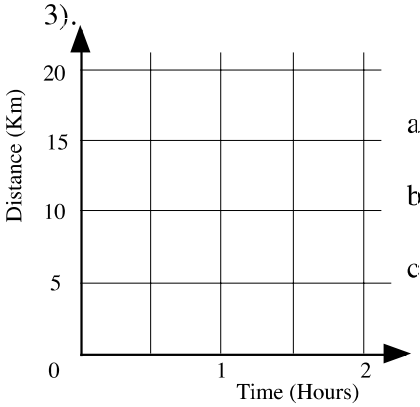
a). 10 km/h,
b). 40 km/h,
c). 5 km/h.

2).



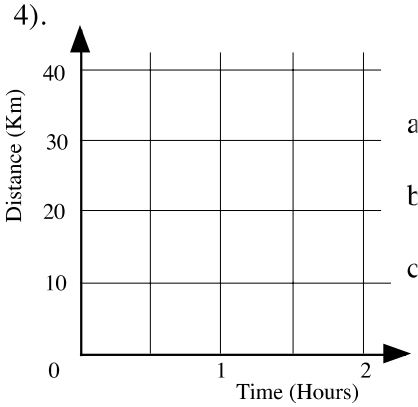
a). 20 km/h,
b). 10 km/h,
c). 2.5 km/h.

3).



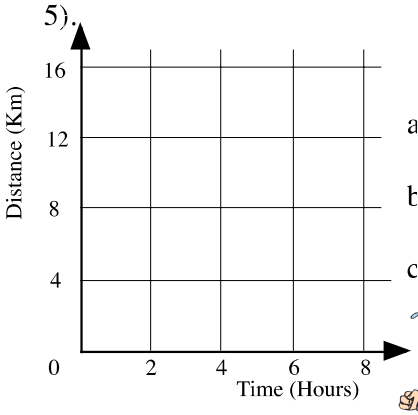
a). 5 km/h,
b). 10 km/h,
c). 40 km/h.

4).



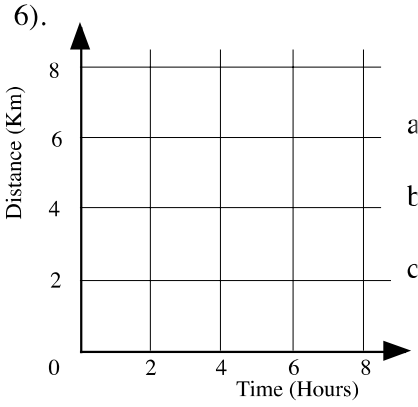
a). 20 km/h,
b). 5 km/h,
c). 80 km/h.

5).



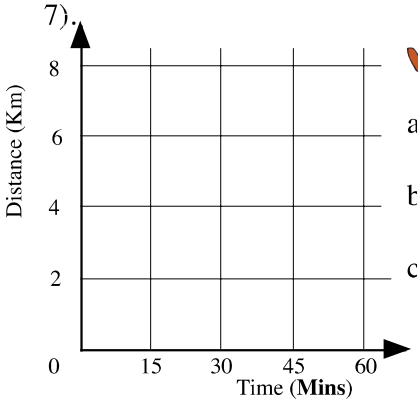
a). 2 km/h,
b). 1 km/h,
c). 8 km/h.

6).



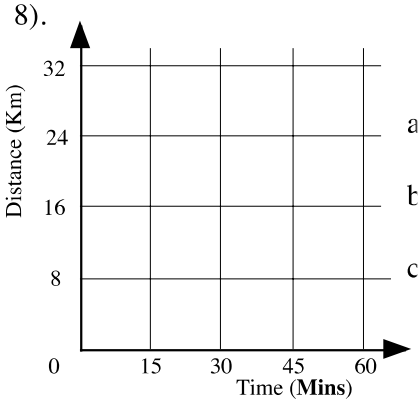
a). 1 km/h,
b). 2 km/h,
c). $^{1}/_{4}$ km/h.

7).



a). 6 km/h,
b). 12 km/h,
c). 32 km/h.

8).

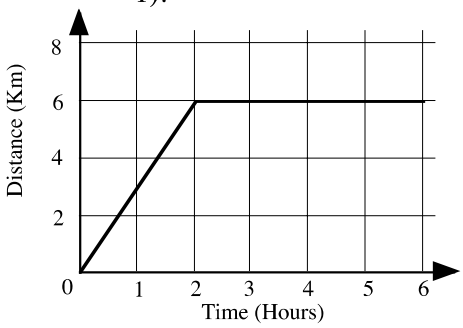


a). 8 km/h,
b). 64 km/h,
c). 96 km/h.

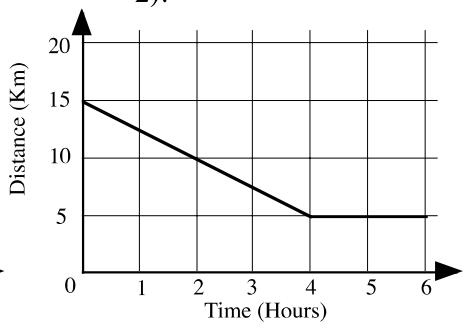
B. Copy each graph on to squared paper.
For each graph find:

a). the length of time stationary, b). the distance travelled,
c). the length of time spent moving, d). the speed when moving.

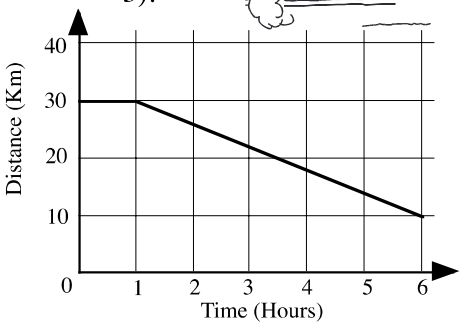
1).



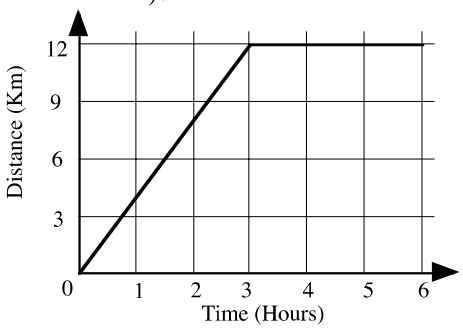
2).



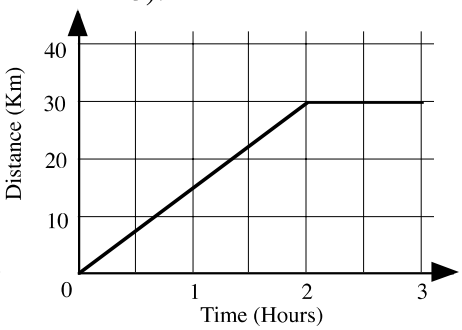
3).



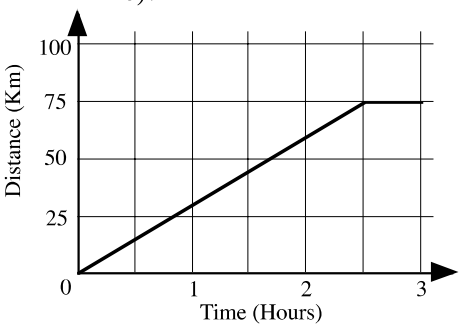
4).



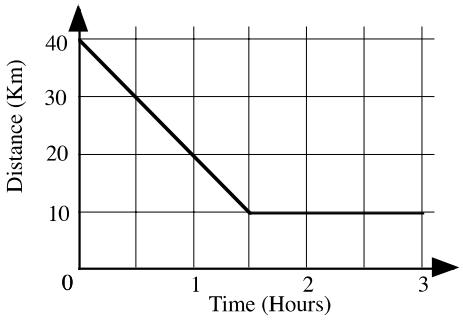
5).



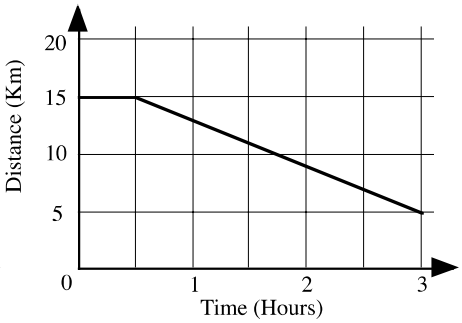
6).



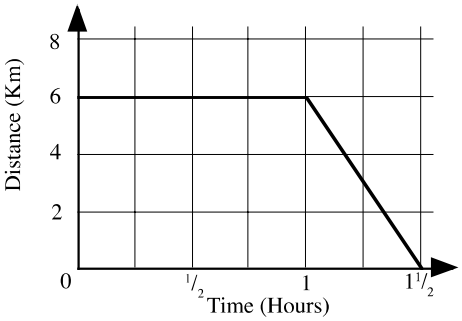
7).



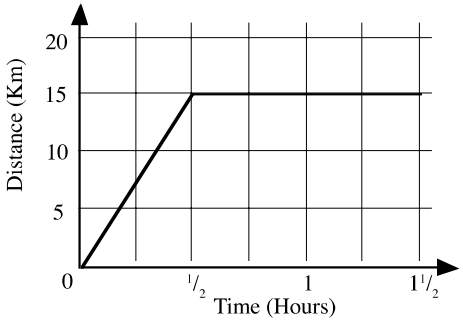
8).



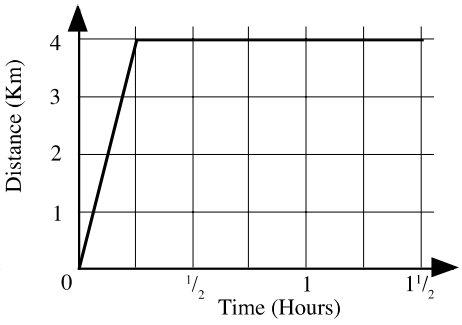
9).



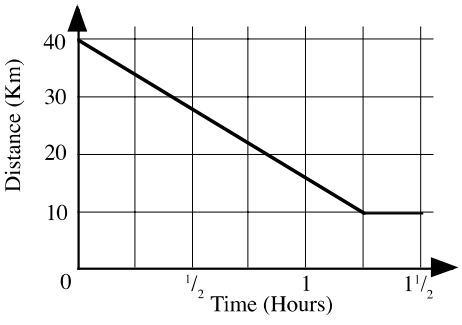
10).



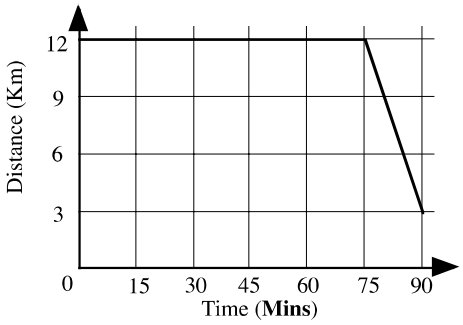
11).



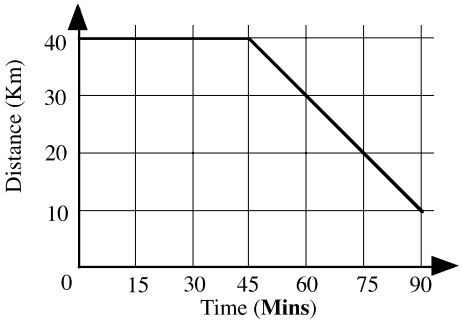
12).



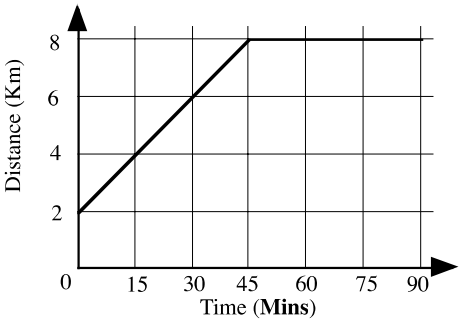
13).



14).



15).

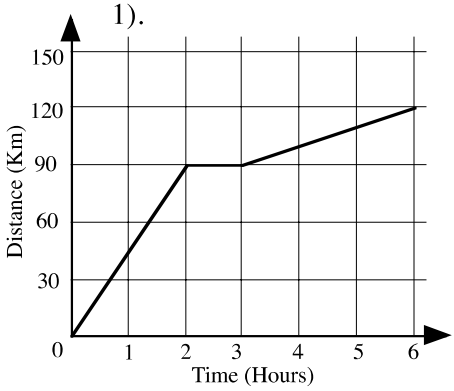


Distance/Time Graphs 3.

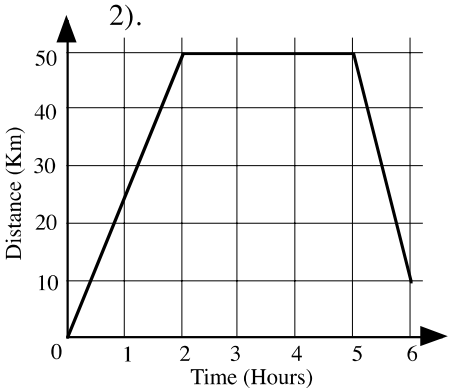
A). Copy each graph onto squared paper and answer the questions.
For each graph find

a). the length of time spent stationary,
b). the speed when moving for the first time,
c). the speed when moving for the second time,
d). the total distance travelled,
e). the total time taken,
f). the average speed for the **whole** journey.

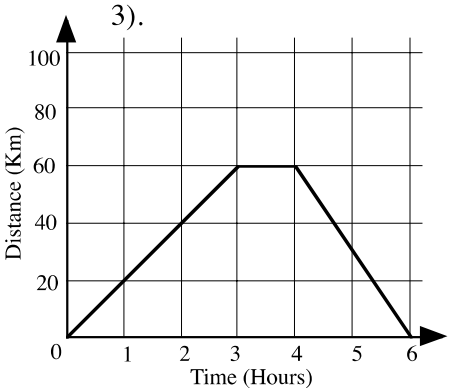
1).



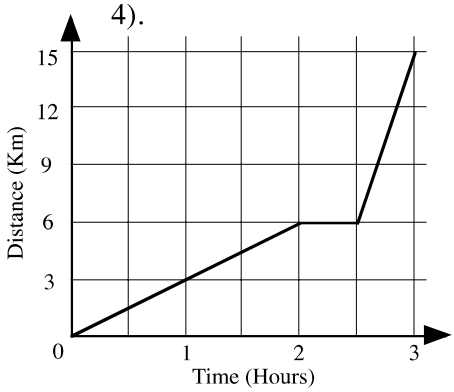
2).



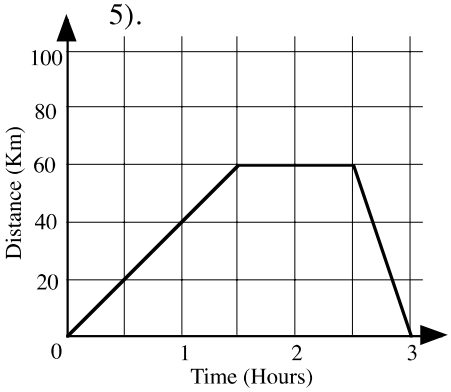
3).



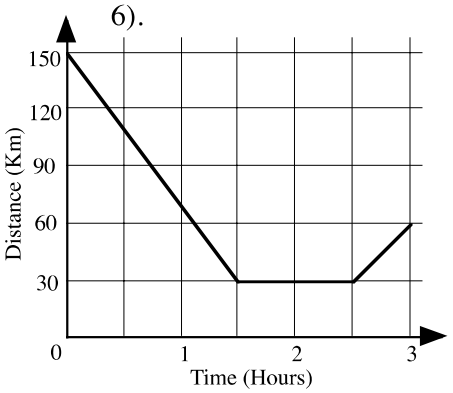
4).



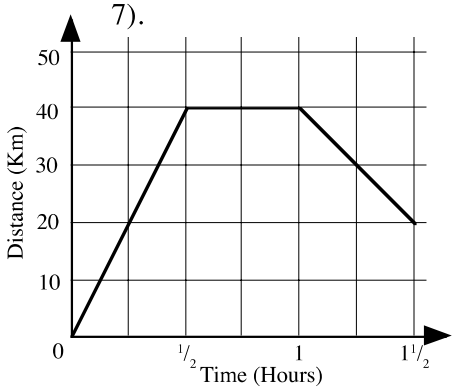
5).



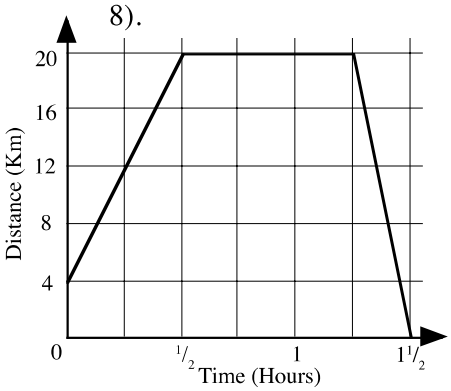
6).



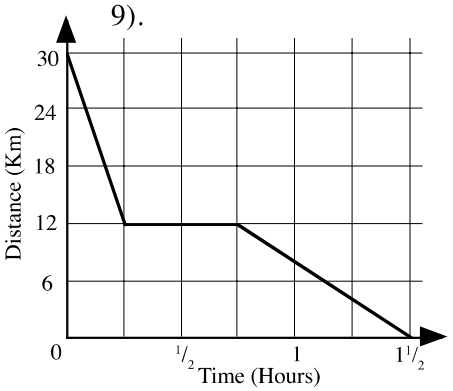
7).



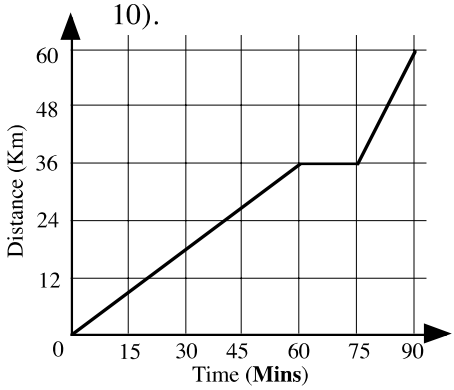
8).



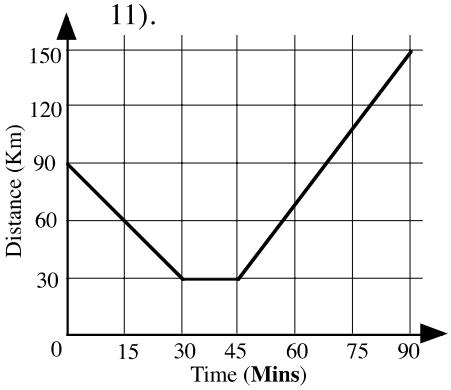
9).



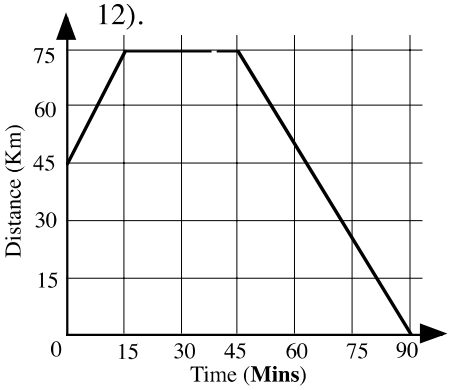
10).



11).

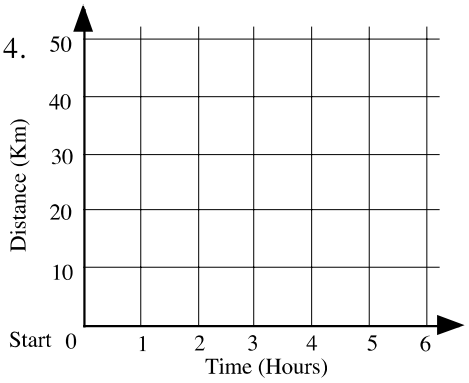


12).



B. For each set of questions plot the journey described on the given set of axes.
Use graph paper. The squares shown are 1 cm squares.

Qu. 1- 4.



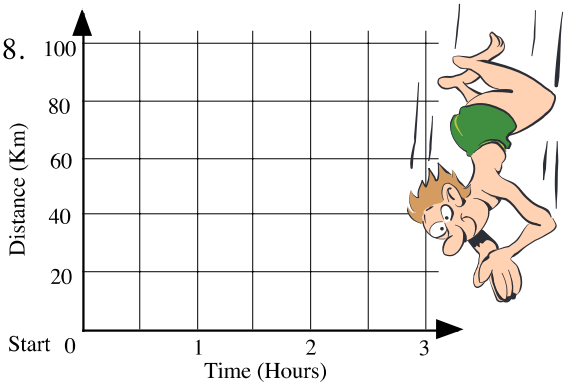
1). Start at 0 km.
Travel at 20 km/h for 2 hours.
Rest for 1 hour.
Travel **towards** the start going 30 km in 3 hours.
For the last part of the journey what is the speed ?

2). Start 50 km from the start.
Travel 30 km **towards** the start at 15 km/h.
Rest for 3 hours.
Go 20 km **towards** the start in 1 hour.
For the last part of the journey what is the speed ?

3). Start 10 km from the start.
Travel 40 km/h **away** from the start for 1 hour.
Rest for 1 hour.
Travel 20 km **towards** the start in the next 4 hours.
For the last part of the journey what is the speed ?

4). Start at 30 km from the start.
Travel 10 km/h **towards** the start for 3 hours.
Rest for 1 hour.
Travel 50 km **away** from the start in 2 hours.
For the last part of the journey what is the speed ?

Qu. 5- 8.



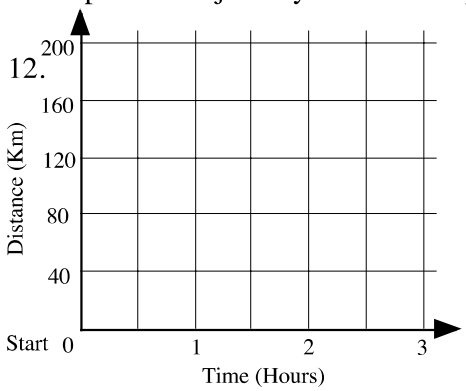
5). Start at 0 km.
Travel at 80 km/h for 1 hour.
Rest for 30 minutes.
Travel **towards** the start going 60 km in $1^1/_2$ hours.
For the last part of the journey what is the speed ?

6). Start 100 km from the start.
Travel **towards** the start at 80 km/h for 30 minutes.
Rest for $1\ ^1/_2$ hours.
Travel all the way **to** the start in 1 hour.
For the last part of the journey what is the speed ?

7). Start 20 km from the start.
Rest for 30 minutes.
Travel 40 km/h **away** from the start for 2 hours.
Instantly return **towards** the start for 30 minutes travelling 40 km.
For the last part of the journey what is the speed ?

8). Start at 60 km from the start.
Travel 80 km/h **towards** the start for 30 minutes.
Rest for 1 hour.
Travel 60 km **away** from the start in $1\ ^1/_2$ hours.
For the last part of the journey what is the speed ?

Qu. 9 - 12.



9). Start at 200 km.
Travel at 80 km/h **towards** the start for $1^1/_2$ hour.
Rest for 1 hour.
Complete the journey **to** the start in the next 30 mins.
For the last part of the journey what is the speed ?
What is the total distance covered for the journey ?

10). Start 40 km from the start.
Travel **away** from the start at 80 km/h for 30 minutes.
Rest for 2 hours.
Travel another 80 km away from the start for 30 mins.
For the last part of the journey what is the speed ?
What is the total distance covered for the journey ?

11). Start 200 km from the start.
Travel 120 km/h **towards** the start for $1^1/_2$ hours.
Rest for 30 minutes.
Travel **away** from the start at 100 km/h for the next hour.
What is the total distance covered for the journey ?

12). Start at 80 km from the start.
Travel 80 km/h **away** from the start for $1^1/_2$ hours.
Rest for 1 hour.
Return to the start in the next 30 minutes.
For the last part of the journey what is the speed ?
What was the average speed for the whole journey ?