Eğitim: Eyüboğlu

SUBJECT: SCIENCE   DATE: /04/2021

LEVEL: GRADE 6   NAME-SURNAME:

UNIT: FORCE AND MOTION   CLASS NO:
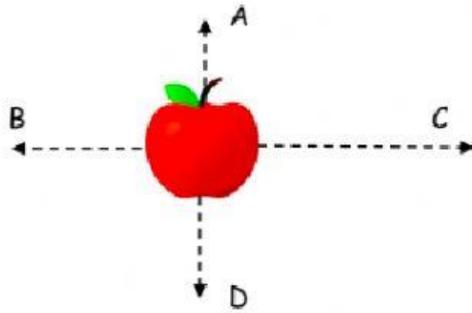
WORKSHEET

FORCE AND MOTION

In this worksheet you will practice UNIT 3 Force and Motion.

1.By using the speed formula calculate the speed of the car for each distance. Use the time data from the table below. Show your work and fill the mini table.
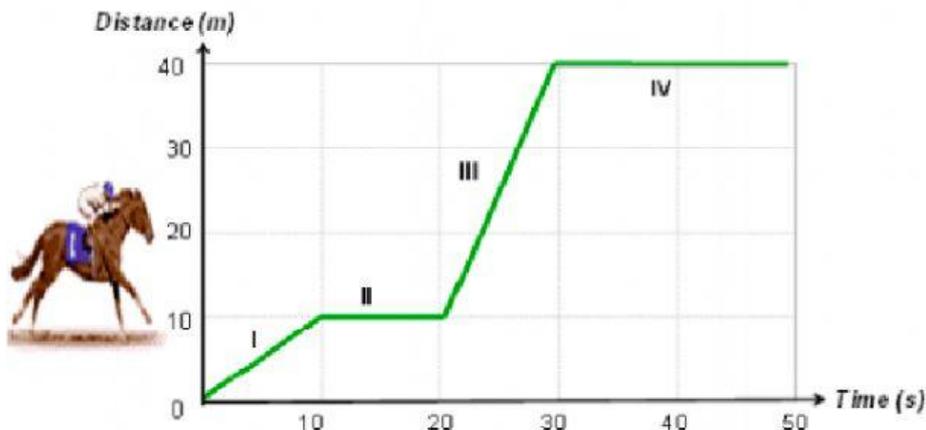
Distance (m)	Time(s)	Speed(m/s)
100	5	
300	6	
500	10	
700	14	
1000	20	

2.An apple is under the effect of a 10N force towards B and a 20 N

force towards C.

By using this information , please answer the following questions:

a) What is the direction of motion of the apple? Why?

b) What would be the direction of the apple if B and C were switched between?

c) There are three different forces with magnitudes 10, 20 and 30 N. In which direction should they be applied for the apple to stay at its original position? Why?

d) Is the apple under the effect of balanced forces? Why?

3.

According to the graph above, discuss;

   a) How many meters did the horse cover after the 30s?

   b) In which time interval(s) is the horse at rest?

   c) In which time interval(s) does the horse move the fastest?

   d) Is the horse slower in the time interval 0-10s or 20-30s?

   e) How many seconds did the horse stay at rest?