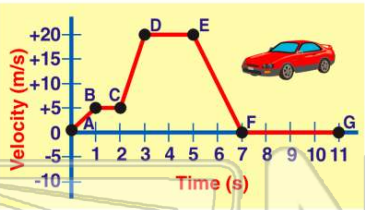
Name _____ Class _____ Date _____

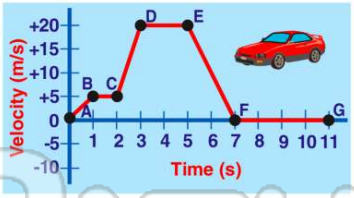
1 The **average velocity** of the car during interval **DE** is

A 0 m/s
B 10 m/s
C 20 m/s
D 40 m/s



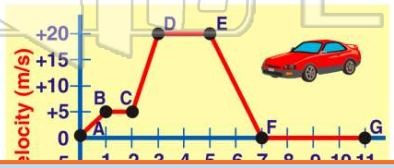
2 The **acceleration** of the car at **t=60 seconds** is

A -20 m/s²
B -10 m/s²
C 5.0 m/s²
D 10 m/s²



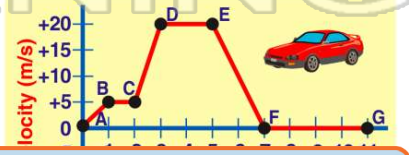
3 The car has the **largest displacement** during interval

A FG
B BD
C EF
D DE



4 During which interval is the **net force** on the car **zero**?

A AB
B BC
C CD
D EF



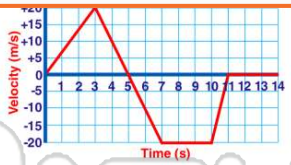
5

7

B increase
C remain the same

t = 8 seconds?

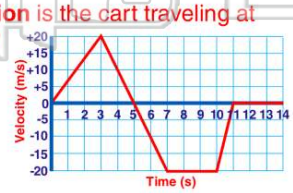
A 0 m/s²
B 10 m/s²
C 20 m/s²
D -20 m/s²



9 The graph below represents the relationship between **velocity** and **time** for a 2.0-kilogram cart that is initially at rest and starts moving northward.

In which **direction** is the cart traveling at **t = 4 seconds**?

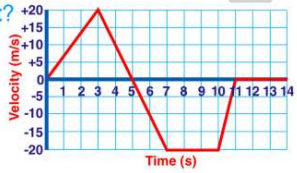
A north
B east
C south
D west



10 The graph below represents the relationship between **velocity** and **time** for a 2.0-kilogram cart that is initially at rest and starts moving northward.

At which **value of t** will the cart be back at the **starting point**?

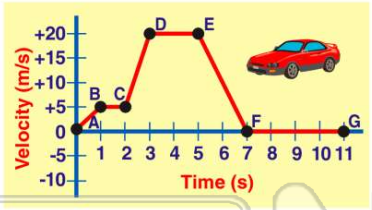
A t = 2.5 s
B t = 8.5 s
C t = 3 s
D t = 5 s



ANSWER KEY

The **average velocity** of the car during interval **DE** is

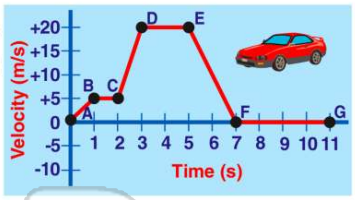
A 0 m/s
B 10 m/s
C 20 m/s
D 40 m/s



c

The **acceleration** of the car at **t=60 seconds** is

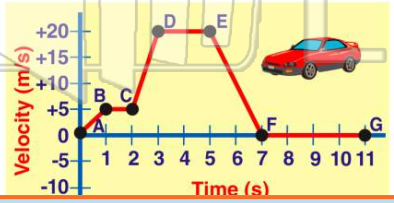
A -20 m/s^2
B -10 m/s^2
C 5.0 m/s^2
D 10 m/s^2



b

The car has the **largest displacement** during interval

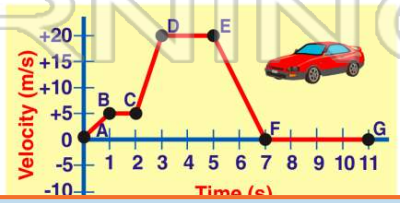
A FG
B BD
C EF
D DE



d

During which interval is the **net force on the car zero**?

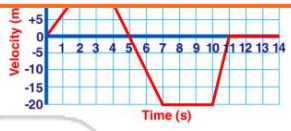
A AB
B BC
C CD
D EF



b

C remain the same

A 0 m/s^2
B 10 m/s^2
C 20 m/s^2
D -20 m/s^2



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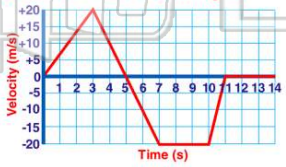

a

The graph below represents the relationship between **velocity** and **time** for a 2.0-kilogram cart that is initially at rest and starts moving northward.

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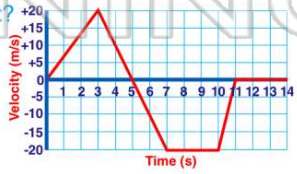

b