Kinematics (Tables and Graphs)

ⓘ This is a preview of the published version of the quiz

Started: Oct 16 at 11:38am

Quiz Instructions

Question 1 — 1 pts

Which of the following units would **NOT** be used to demonstrate an acceleration?

- m/s every s
- m/s^2
- m/s
- m/s/s

Question 2 — 1 pts

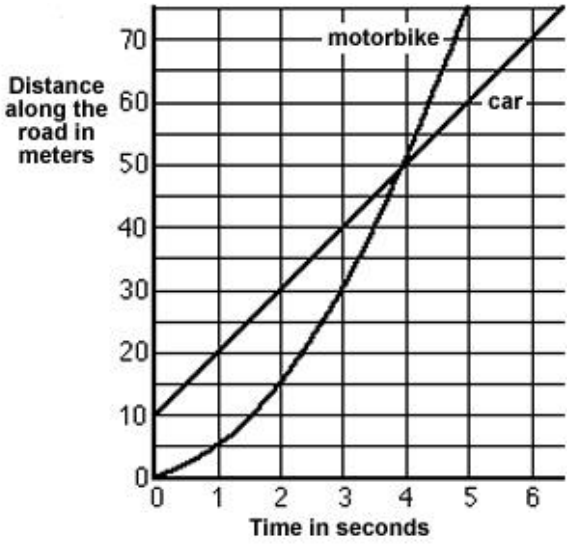
What does a measurement of 10m/s tell us about an object?

- distance
- speed
- time
- acceleration

Question 3

1 pts

Which of the following objects is traveling at a **CONSTANT SPEED**?



bike car graph.jpg

- Bike, because it got there first
- Bike, because the line is curved
- Car, because it got there second
- Car, because the line is straight

Question 4

1 pts

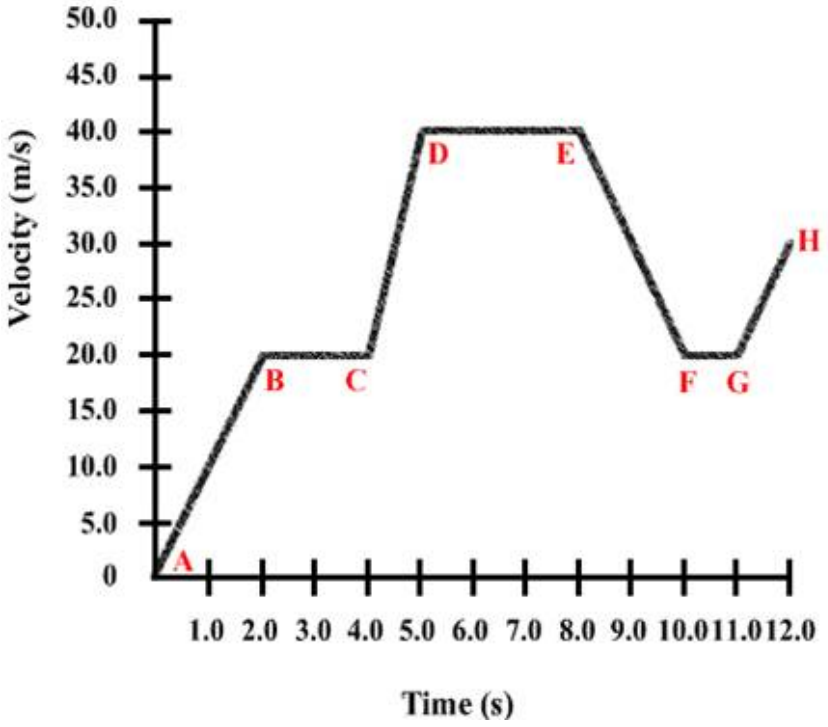
What does an **acceleration of 3m/s^2** mean?

- object goes 3s farther every s
- object speeds up 3m/s^2 every s
- object speeds up 3m/s every s
- object goes 3m farther every s

Question 5

1 pts

During which segment is the object traveling at a **CONSTANT SPEED**?



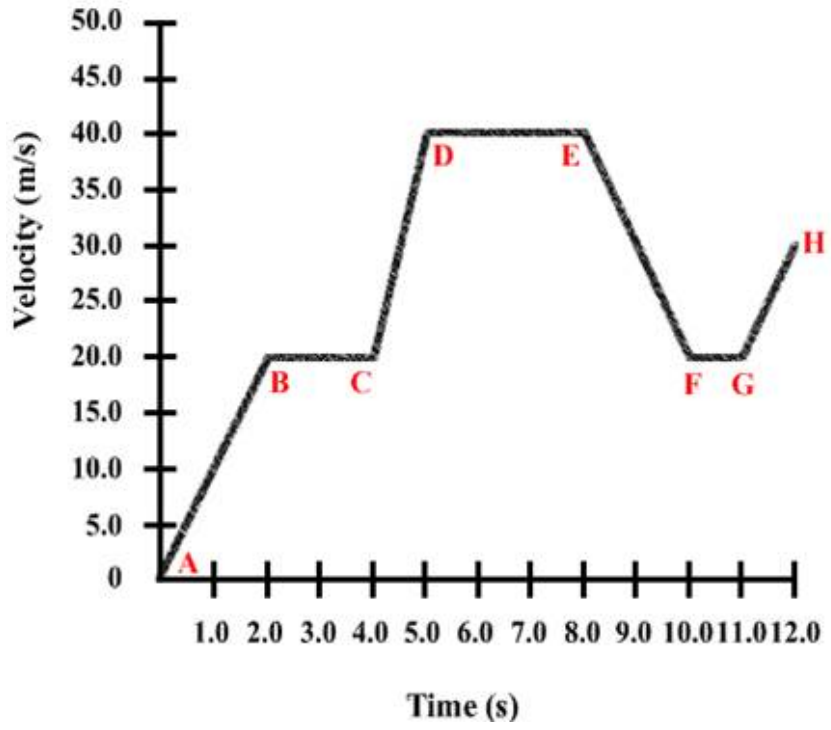
Acceleration travel.jpg

- DE
- EF
- CD
- AB

Question 6

1 pts

Which segment shows **NEGATIVE ACCELERATION (slowing down)**?



Acceleration travel.jpg

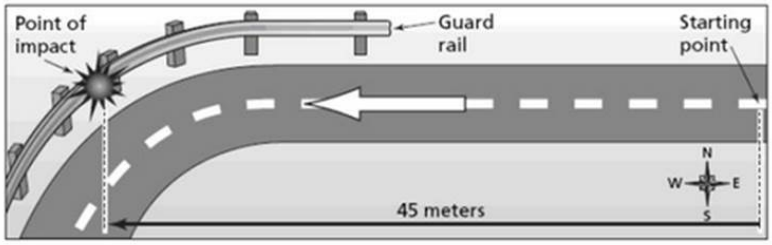
- BC
- CD
- DE
- EF

Question 7

1 pts

The following shows crash test data for 4 vehicles:

Which of the following vehicle has the **GREATEST ACCELERATION** (a=v/t)?



Crash Test Data and Percent Vehicle Damage

Vehicle	Vehicle Mass (in kilograms)	Distance Traveled (in meters)	Travel Time (in seconds)	Vehicle Damage (in percent)
1	1,000	45	9	15
2	1,500	45	10	20
3	2,000	45	12	42
4	2,500	45	15	65

acceleration crash test.jpg

- Vehicle 3
- Vehicle 1
- Vehicle 2
- Vehicle 4

Question 8

1 pts

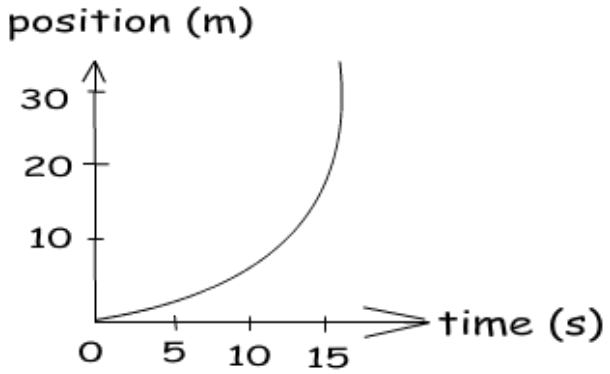
If acceleration is a change in velocity, which of the following is NOT an example of acceleration?

- Slowing Down
- Speeding Up
- Turning
- Standing Still

Question 9

1 pts

What is happening to the object in this graph?



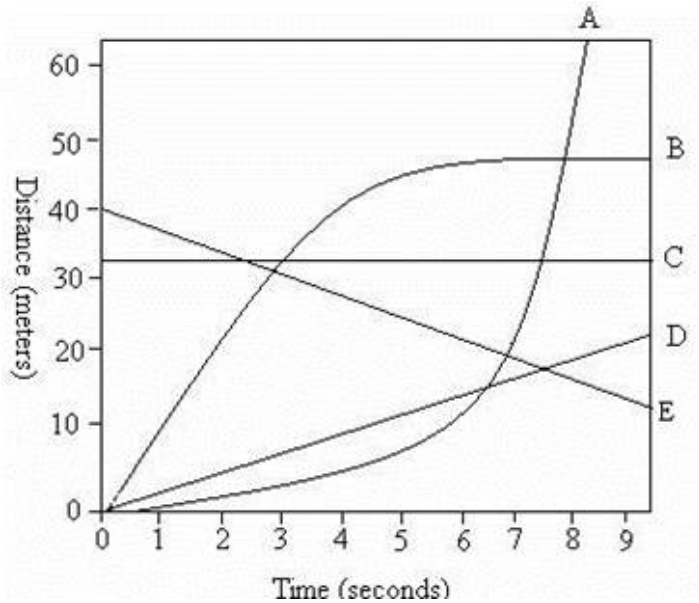
position time acceleration graph.png

- Constant speed
- Not moving
- Negative acceleration (slowing down)
- Positive acceleration (speeding up)

Question 10

1 pts

Which of the following lines shows an object that is **NEGATIVELY ACCELERATING (SLOWING DOWN)?**



position time multi.jpg

- A
- E
- B
- D
- C

Question 11

1 pts

What would be the **appropriate type of graph** to represent the following data?

Time(hours)	Distance(miles)
0	0
1	55
2	110
3	165
4	220
5	275
6	330
7	385
8	440

- Box-and-Whisker Chart
- Bar Graph
- Circle (Pie) Graph
- Line Graph

Question 12

1 pts

What is the **AVERAGE SPEED** of this object?

Time(hours)	Distance(miles)
0	0
1	55
2	110
3	165
4	220
5	275
6	330
7	385
8	440

- 440 mi/hr
- 8 mi/hr
- 55 mi/hr
- .02 mi/hr

Question 13

1 pts

Which person had the greatest **AVERAGE SPEED**?

Time (Seconds)	Distance in Meters		
	Terry	Jade	Jerome
1	1	2	2.5
2	2	4	5
3	3	6	7.5
4	4	8	10
5	5	10	12.5
6	6	12	15
7	7	14	17.5
8	8	16	20
9	9	18	22.5
10	10	20	25

- All had same speed
- Terry
- Jerome
- Jade

Question 14

1 pts

Which of the following was the **AVERAGE SPEED** of this object?

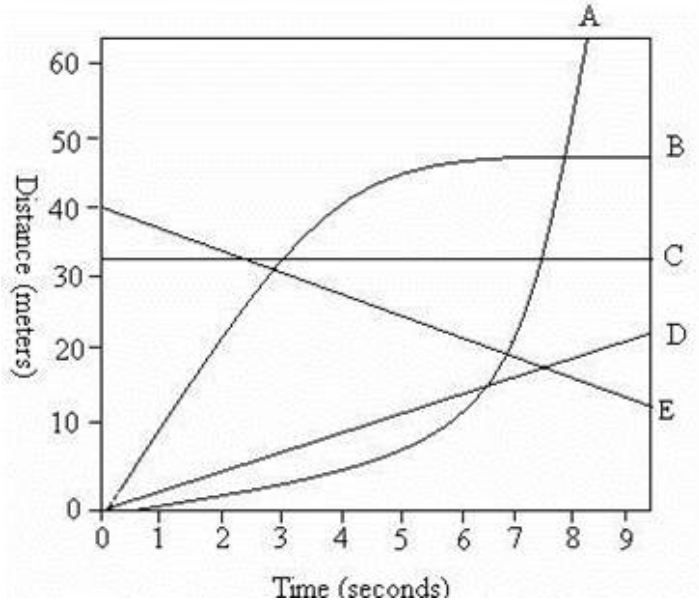
	Distance (±0.1 m)	Time (±0.01 s)	Work (Joules)	Power (Watts)
Trial 1	3.29	1.00	1.65	1.65
Trial 2	3.37	1.20	1.69	1.40
Trial 3	4.25	0.90	2.13	2.36
Trial 4	4.82	0.80	2.41	3.01
Trial 5	4.46	0.80	2.23	2.79
Mean	4.04	0.94	2.02	2.24

- 4.04 m/s
- .23 m/s
- .94 m/s
- 4.30 m/s

Question 15

1 pts

Which **two lines** show an object moving at a **CONSTANT SPEED**?



- A & B
- D & E
- C & D
- B & C

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