



Physics Quiz

No. of Pages: (2)

No. of Questions: (2)

Mark: (_____ / 13)

Name: _____

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Grade: 9 ()

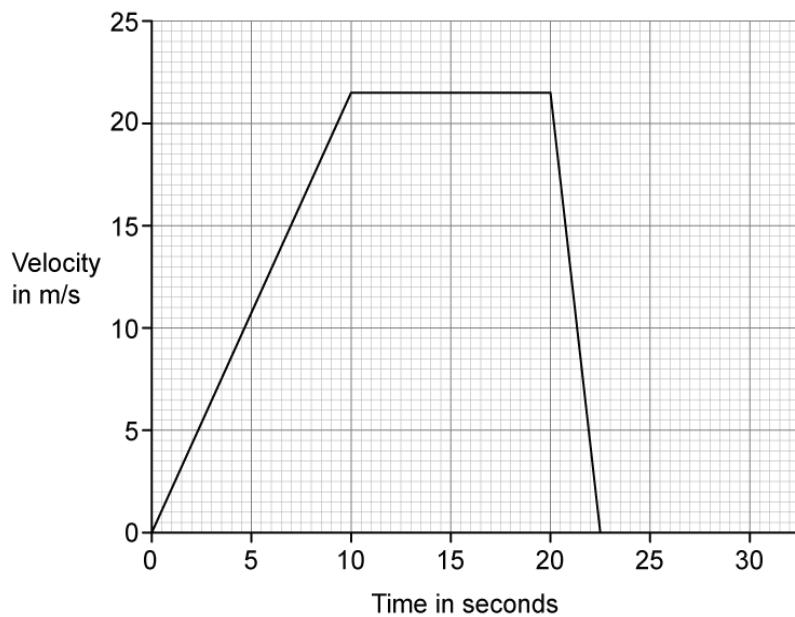
Duration: 15 min.

Form 2

Question 1:

(/ 10)

The velocity-time graph shows how the velocity of a motorcycle changes with time.



a. With reference to the graph, state and explain which part of the graph shows that the motorcycle has constant deceleration. [4]

b. State the formula linking acceleration, change in velocity and time taken. [1]

c. Calculate the acceleration of the motorcycle between 20 and 22.5 seconds. [2]

$$\text{acceleration} = \dots \text{ m/s}^2$$

d. Calculate the distance travelled between 20 and 22.5 seconds. [3]

$$\text{Distance} = \dots \text{ m}$$

Question 2: (/ 3)

A runner reaches a speed of 3m/s after accelerating at 2.25 m/s^2 whilst travelling a distance of 2m. Calculate the initial speed of the runner.