



### Physics Quiz

No. of Pages: (2)

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Mark: ( \_\_\_\_\_ / 13 )

Name: \_\_\_\_\_

Date: / 9 / 2025

Grade: 9 (        )

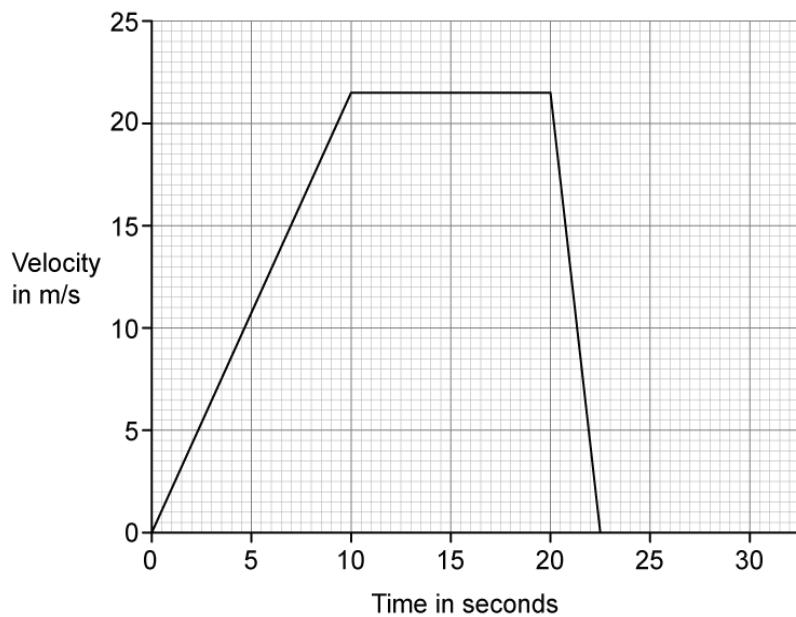
Duration: 15 min.

### Form 4

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 speed. [4]

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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 0 and 10 seconds. [3]

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

**Question 2:** ( / 3 )

A car reaches a speed of 15m/s after a deceleration of  $2\text{m/s}^2$  over a distance of 44m. Calculate the initial speed.

Teacher: Zeina Abu Manneh