 **Area under Graphs and Gradients GREEN**

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| Question 11. Calculate the rate of acceleration from 0 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 21. Calculate the rate of deceleration from 0 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled in the first 9 seconds.

\_\_\_\_\_\_\_\_\_ m |
| Question 31. Calculate the rate of acceleration from 0 to 6 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 41. Calculate the rate of deceleration from 6 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |

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| Question 51. Calculate the rate of acceleration from 0 to 3 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 61. Calculate the rate of deceleration from 7 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |
| Question 71. Calculate the rate of acceleration from 5 to 7 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 81. Calculate the rate of deceleration from 7 to 9 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |

 **Area under Graphs and Gradients AMBER**

Acceleration/deceleration = gradient

Distance travelled = area under the graph

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| Question 11. Calculate the rate of acceleration from 0 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 21. Calculate the rate of deceleration from 0 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled in the first 9 seconds.

\_\_\_\_\_\_\_\_\_ m |
| Question 31. Calculate the rate of acceleration from 0 to 6 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 41. Calculate the rate of deceleration from 6 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |

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| Question 51. Calculate the rate of acceleration from 0 to 3 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 61. Calculate the rate of deceleration from 7 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |
| Question 71. Calculate the rate of acceleration from 5 to 7 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 81. Calculate the rate of deceleration from 7 to 9 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |

 **Area under Graphs and Gradients RED**

Acceleration/deceleration = gradient

Distance travelled = area under the graph

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| Question 1Area of trapezium = ½ (a + b) hGradient = rise run1. Calculate the rate of acceleration from 0 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 21. Calculate the rate of deceleration from 0 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled in the first 9 seconds.

\_\_\_\_\_\_\_\_\_ m |
| Question 31. Calculate the rate of acceleration from 0 to 6 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 41. Calculate the rate of deceleration from 6 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |

|  |  |
| --- | --- |
| Question 51. Calculate the rate of acceleration from 0 to 3 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 61. Calculate the rate of deceleration from 7 to 10 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |
| Question 71. Calculate the rate of acceleration from 5 to 7 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m | Question 81. Calculate the rate of deceleration from 7 to 9 seconds.

\_\_\_\_\_\_\_\_\_ m/s²1. Calculate the distance travelled.

\_\_\_\_\_\_\_\_\_ m |