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| **Odd One Out** | **Constant Acceleration Formulae** |

Colour in the odd one out in each set of three.

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| **1** | A particle moves from rest to a final velocity of in seconds. Find the constant acceleration. | A particle with an initial velocity of comes to rest after seconds. Calculate its acceleration. | A particle with an initial velocity of travels for seconds. If its final velocity is , what is its constant acceleration? |
| **2** | A car starts from rest and moves with a constant acceleration, reaching in seconds. Find the distance travelled. | A car with an initial velocity of decelerates constantly at over seconds. Find the distance travelled by the car. | A car moves with constant deceleration, reducing its velocity from to in seconds. Calculate the distance travelled. |
| **3** | A cyclist with an initial velocity of accelerates downhill constantly at . If the final velocity is  calculate the time taken. | A cyclist travelling at brakes and comes to rest over a distance of . Find the time taken. | A cyclist travels at a constant velocity of Find the time taken to travel . |
| **4** | A particle moves with a constant acceleration, travelling m in seconds. If the initial velocity is find the final velocity. | A particle decelerates at for seconds. If the initial velocity is , find the final velocity of the particle. | A particle starts with an initial velocity of , accelerating at over a distance of m. Calculate the particle’s final velocity. |
| **5** | A bus travels m in seconds, moving with a constant acceleration of . Calculate the initial velocity of the bus. | A bus travels for seconds, reaching a final velocity of . If the bus travels m in this time, calculate its initial velocity. | A bus accelerates at for seconds, reaching a final velocity of . Find the initial velocity of a bus. |
| **6** | A train slows down to rest with a constant deceleration of for seconds. Find the distance travelled by the train. | A train with an initial velocity of moves with a constant acceleration of . If the train’s final velocity is , find the distance travelled. | A train passes point A at a velocity of and then passes point B seconds later. If the train moves with constant acceleration of , find the distance AB. |