Kinematics Equations – Warm-up & Examples

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

1. A sprinter starts from 1.5m/s and accelerates for 8.9 s over a distance of 78 m. Calculate the acceleration of the sprinter.
2. A dragon is at the edge of a forest. The dragon accelerates from a speed of 12m/s over a distance of 2000m at a rate of 1.3m/s/s. Calculate how long it takes for this acceleration to occur.