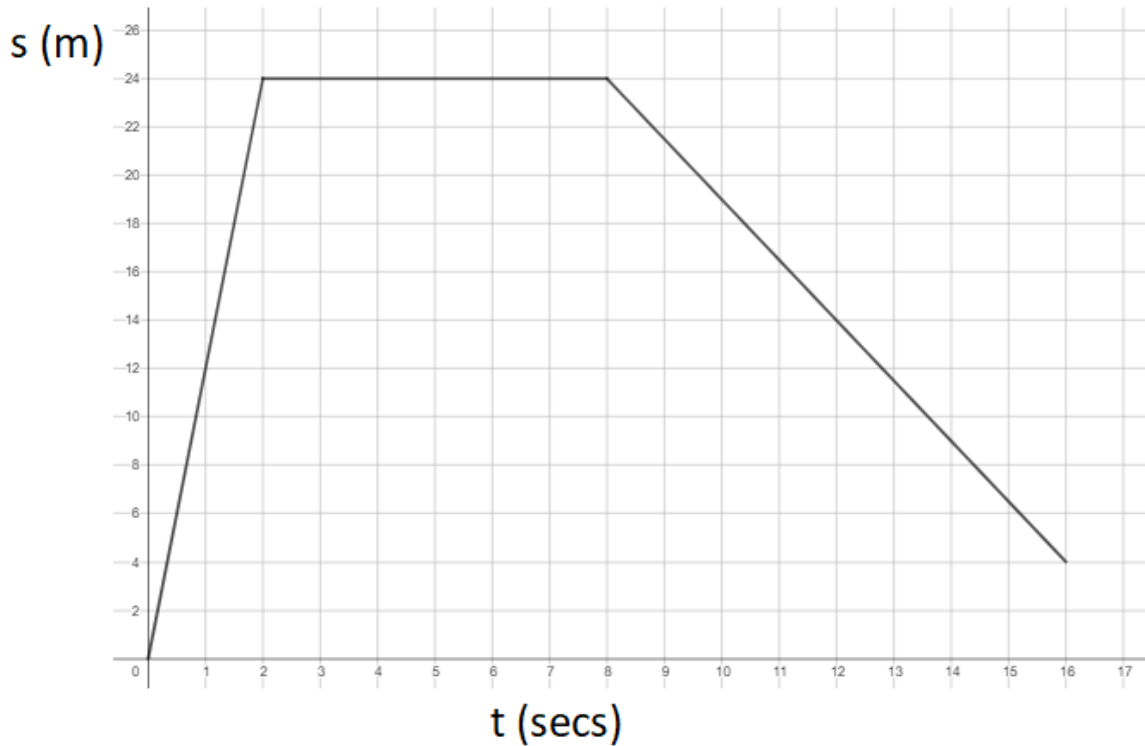


Displacement/Time Graphs – www.m4ths.com

(1) A particle travels along the x axis and a graph of its motion is shown below.

- (a) Explain why the speed is constant in the first section of travel
- (b) Explain what happens to the particle between 2 and 8 seconds
- (c) Find the velocity of the 3rd section of travel
- (d) State the speed of the 3rd section of the travel
- (e) Find the total distance covered by the particle
- (f) Find the total displacement of the particle



(2) A particle travels along the x axis

- (a) State how far from the origin the particle starts
- (b) State the direction of travel for the first 7 seconds
- (c) Find the velocity of the first section of travel
- (d) Find the total distance travelled by the particle
- (e) Find the total displacement of the particle
- (f) Which section was the fastest section for the particle?

