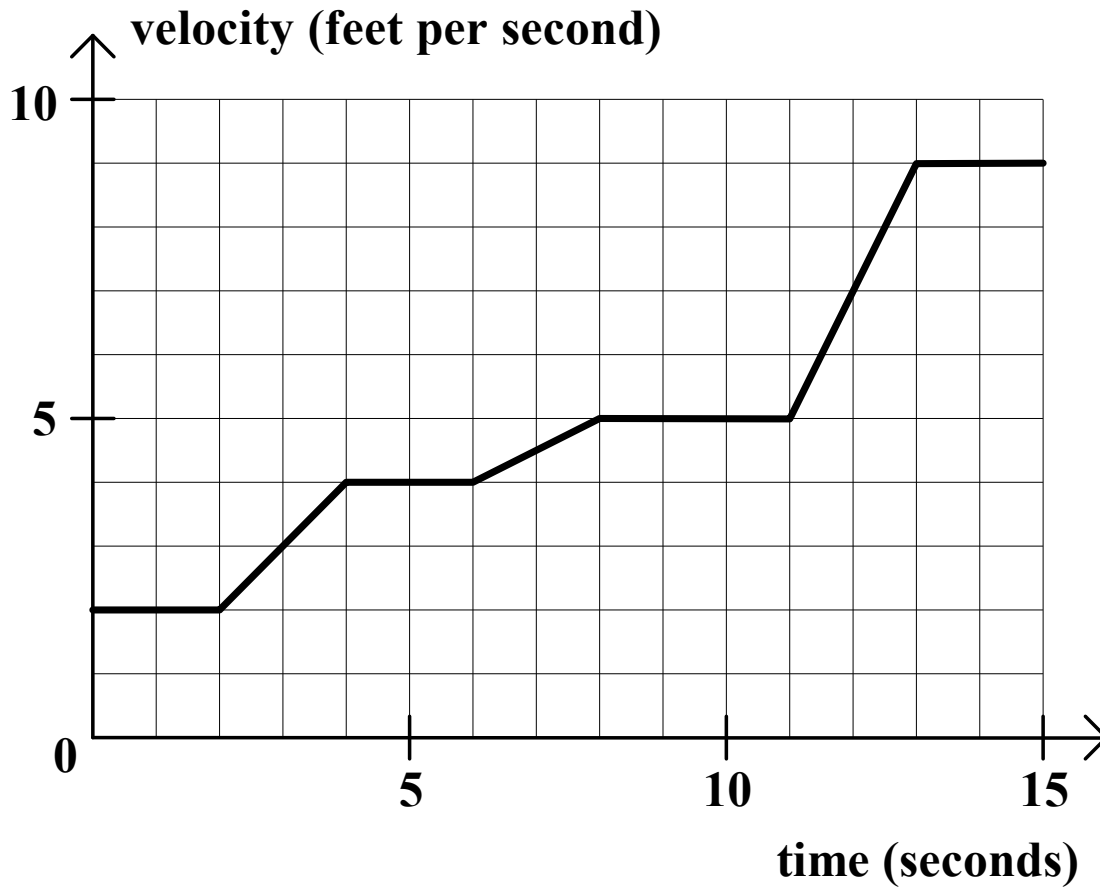


Advanced Challenge Level 2 Problem #10

A particle is moving in one direction on a straight line. The graph below shows the velocity of the particle (in feet per second) as a function of time (in seconds).



Your job for this problem is to determine the total distance traveled by the particle during this 15 second time interval. Make sure that you clearly describe the process that you used to arrive at your answer.