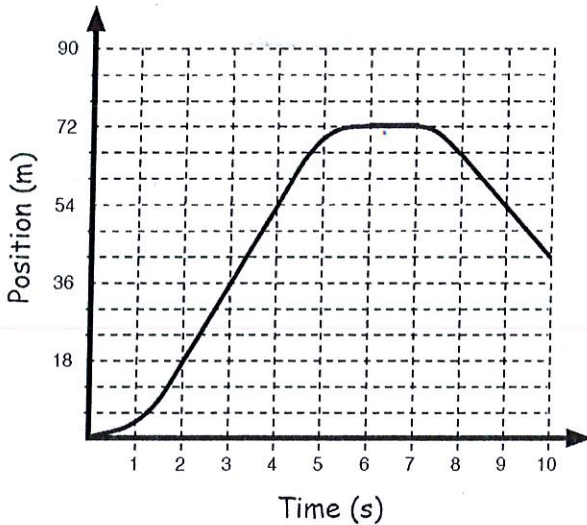


Name: _____ Block: _____

Motion Graphs

1. An object's motion is described by the following graph of position vs. time:

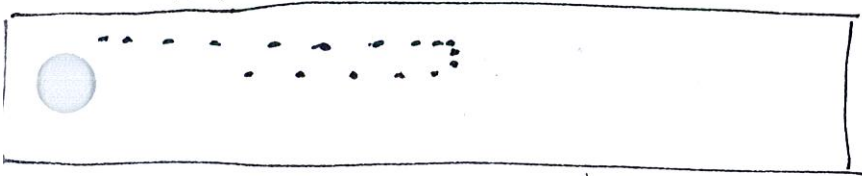


(a) What is the object doing between 2s and 4s? What is its velocity during that interval? *constant velocity forward*
18 m/s

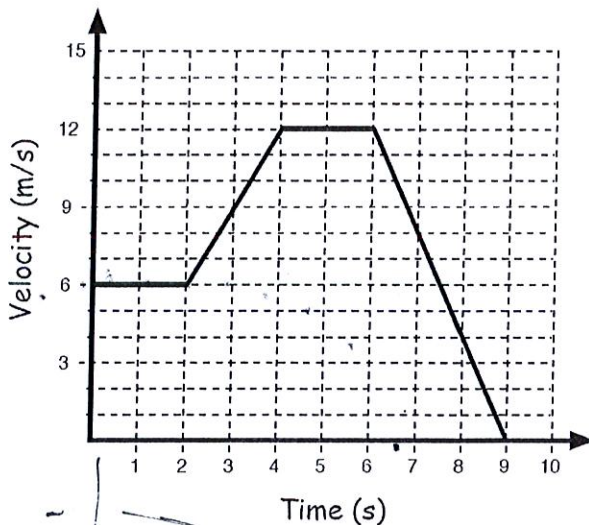
(b) What is the object doing between 6s and 7s? What is its velocity during that interval? *not moving*
0 m/s

(c) What is the object doing between 8s and 10s? What is its velocity during that interval? *constant velocity backwards*
-12 m/s

DOT MOTION



2. An object's motion is described by the following graph of velocity vs. time:



(a) What is the object doing between 0s and 2s? What are its velocity and acceleration during that interval?
constant velocity forward
+6 m/s 0 m/s²

(b) What is the object doing between 2s and 4s? What is its acceleration during that interval? *accelerating +*
+3 m/s²

(c) What is the object doing between 6s and 9s? What is its acceleration during that interval? *decelerating (accelerating -)*
-4 m/s²

DOT MOTION

