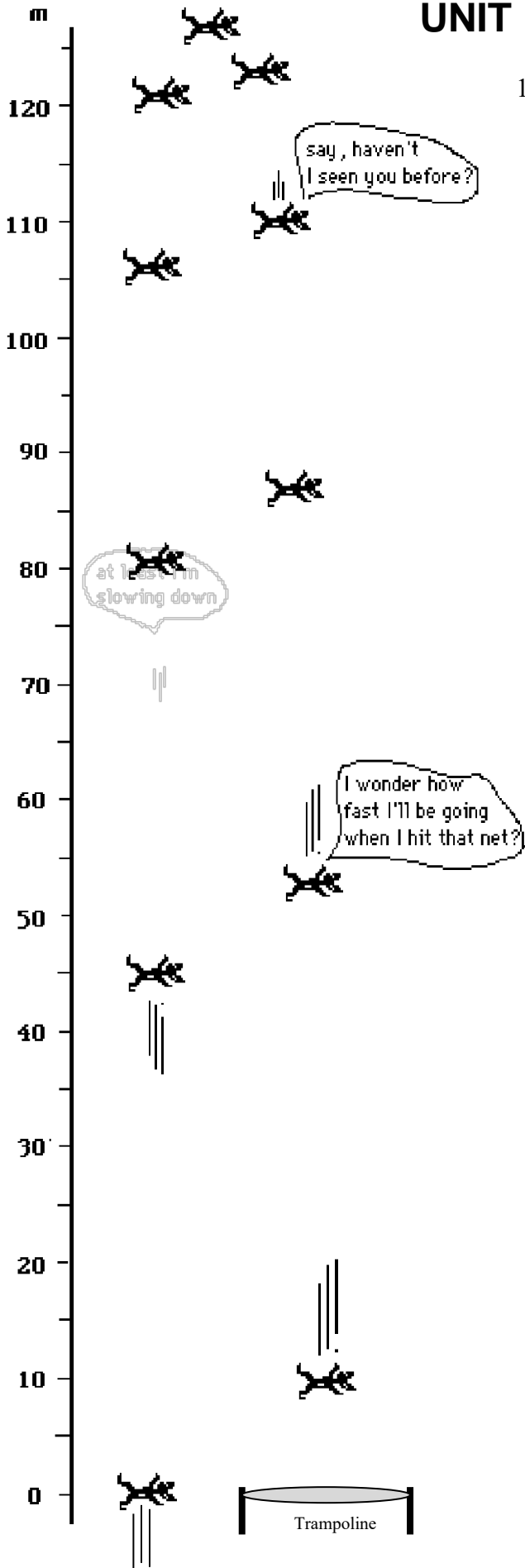


UNIT I: Worksheet 4



1. Finn is shot upward from a cannon with $v_0 = 50$ m/s. For each second, record the displacement. Then determine the instantaneous velocity at each second.

t(s)	y(m)	v_y (m/s)
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

2. Draw velocity and acceleration vectors on each picture of Finn.

3. Sketch a velocity vs. time graph below for Finn's flight.

4a. What is Finn's velocity at the top of his path?

b. What is Finn's acceleration at the top of his path?

c. What is Finn's displacement for half of the trip?

d. What is Finn's displacement for the entire trip?