

Acceleration with Wind-up Toys

1. Using instructions from your teacher complete the data table below.

Time in Seconds	0	5	10	15	20	25
Position in centimeters						

2. Construct a distance-time graph. (Use the space provided.)

3. Complete the data table below. Remember... $v = d/t$.

Interval	Distance (cm)	Velocity cm/sec
(1): 0 – 5		
(2): 5 – 10		
(3): 10 – 15		
(4): 15 – 20		
(5): 20 – 25		

4. Construct a velocity-time graph. (Use the space provided.)

5. Calculate the acceleration during time period A and time period B. Your teacher will determine these time periods on your graph. Show your work. Remember...

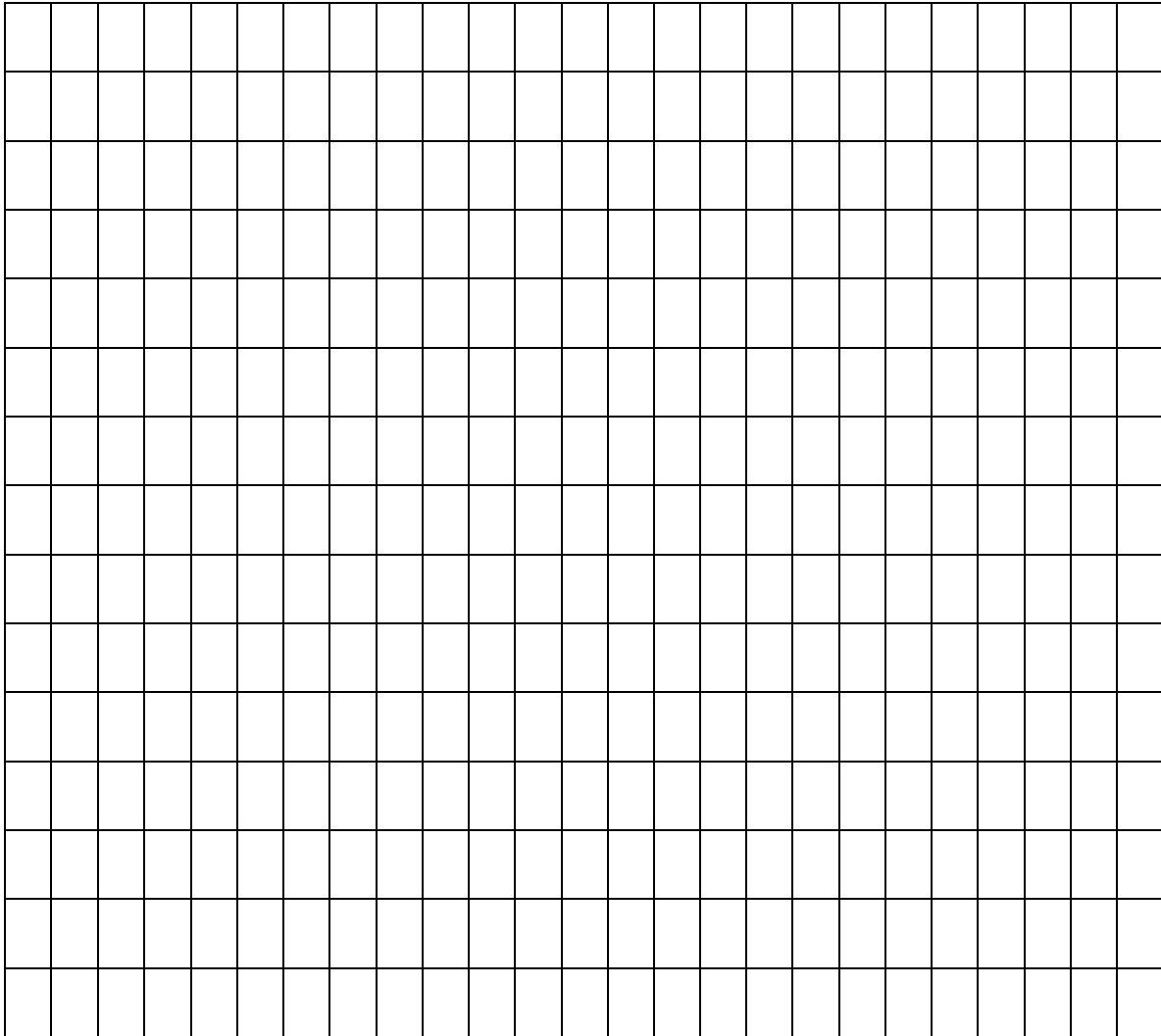
$$a = \frac{v_f - v_i}{t}$$

During time period A:

During time period B:

6. Describe the acceleration of your wind-up toy.

(2) Distance-Time Graph



(4) Velocity-Time Graph

