

**Lab - Motion of Trucks**

**Table 1 - Calibration of Timer**

	time	# dots	dots/s
<b>Trial 1</b>	2.83	174	61.48

Actual Time Per Dot (s): 0.0167

**Table 2 - Speed of Truck**

time (s)	y (cm)	$\Delta y$ (cm)	v (cm/s)	$\Delta v$ (cm/s)	a (cm/s/s)
0.000	0.00				
0.017	0.03	0.03	1.80		
0.033	0.06				
0.050	0.10	0.04	2.40	0.60	18.00
0.067	0.20				
0.083	0.30	0.10	6.00	3.60	108.00
0.100	0.40				
0.117	0.50	0.10	6.00	0.00	0.00
0.133	0.65				
0.150	0.78	0.13	7.80	1.80	54.00
0.167	1.20				
0.183	1.35	0.15	9.00	1.20	36.00
0.200	1.50				
0.217	1.80	0.30	18.00	9.00	270.00
0.233	2.18				
0.250	2.40	0.23	13.50	-4.50	-135.00
0.267	2.70				
0.283	3.00	0.30	18.00	4.50	135.00
0.300	3.30				
0.317	3.60	0.30	18.00	0.00	0.00
0.333	3.90				
0.350	4.20	0.30	18.00	0.00	0.00
0.367	4.50				
0.383	4.90	0.40	24.00	6.00	180.00
<b>Averages</b>			<b>11.88</b>		<b>60.55</b>