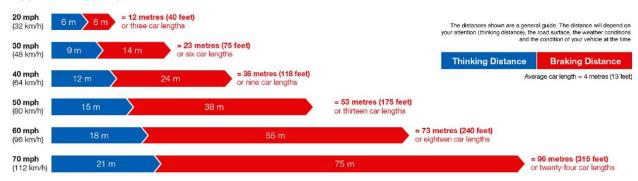
## **Friction Matters Homework**

Name:	Date:
<b>Definitions:</b> Write your own	definitions to each vocabulary word listed below.
Friction:	
Mass:	
Velocity:	
Force:	
Stopping Distance:	
Equations: Based off of the graph $d = \frac{v_0^2}{2\mu g}$	given equation, match the variables with their abbreviations. $\mathbf{d} = \underline{\hspace{1cm}}$ $\mathbf{v} = \underline{\hspace{1cm}}$ $\mu = \underline{\hspace{1cm}}$ $\mathbf{g} = \underline{\hspace{1cm}}$
<b>Discussion Questions:</b> Use sentences.	e the space provided to answer the questions in complete
1. Explain how surface type	e influences the amount of friction.

2.	Analyze how friction can be both a positive and negative part of our everyday lives. Use examples to support your statements.
	POSITIVE:
	NEG A TWO
	NEGATIVE:
3.	Describe what a daily activity would be like if there were no friction. How would the activity be easier, and how would it be more difficult?

Further Your Thinking: Consider the picture below when answering the question below.

## **Typical Stopping Distances**





1.	How might reaction time influence your stopping distance?