



Skid Mark Recording Sheet



Name _____

Drag Sled Video Clip - https://www.youtube.com/watch?v=hP-Ofph_eEk

New Asphalt (38 pound sled):

Force	32	34	35	33	35	34	33	32	33	36	Average
Friction											

Heavy Traveled Concrete (52 pound sled):

Force	28	27	29	30	26	27	30	25	29	28	Average
Friction											

New Asphalt:

Speed at breaking(mph)	30	35	40	45	50	55	60	65
Skid Length (ft)	34	46	60	76	94	114	135	159

Asphalt

Graph	Linear Regression Model _____ r – value = _____ Quadratic Regression Model _____ r- value = _____ Exponential Regression Model _____ R – value = _____
-------	---

Heavy Traveled Concrete:

Speed at breaking(mph)	30	35	40	45	50	55	60	65
Skid Length (ft)	56	76	99	126	155	188	224	262

Graph	Linear Regression Model _____ r – value = _____ Quadratic Regression Model _____ r- value = _____ Exponential Regression Model _____ R – value = _____
-------	---

Independent Variable _____ Dependent Variable _____

New Asphalt Equation for Speed: _____

Heavy Traveled Concrete Equation for Speed: _____

Is this formula consistent with your two formulas? If not, then what is different?

Situation 1: Is the driver guilty of any crime? What Crime? Show your work to support your Yes or No Answer below:

Situation 2: Is the driver guilty of any crime? What Crime? Show your work to support your Yes or No Answer below:

Situation 3: Is the driver guilty of any crime? What Crime? Show your work to support your Yes or No Answer below:

Situation 4: If the skid mark on the concrete is 38 feet and the skid mark on the grass area is 80 feet, was the driver speeding if the area is in a 35 mph speed zone?

