

Name: _____

Fun with MATH (get it, huh?)

1. Natalie and Caitlin are fighting over lab materials. If Natalie pulls with 5 N of force and Caitlin pulls with 8 N of force. Who wins the tug-of-war and with how much force? Draw a diagram to represent the situation

2. David and Sean are dropping oranges off the roof of the school. How fast are the oranges traveling after 1 second, after 2 seconds, after 10 seconds?

3. Clay, Bart and John are throwing peanuts birds after school. If they throw the peanuts with a force of 5 N and each peanut has a mass of 0.005 Kg. What is the acceleration of each peanut?

4. Alex and Sarah are trying of get rid of the singing hamster. If they load the hamster into a bottle rocket and launch it toward the moon with an acceleration of 50 m/s^2 , how much mass does the hamster have if the rocket applies 10 N of force?

5. Kyle, Chris and Dustin are dropping X-Boxes out of an airplane. When the X-Boxes reach their terminal velocity, will their acceleration be less, more or equal to 9.8 m/s^2 ? Explain.
6. A car can experience all three types of friction. Give an example of a car experiencing each of the three different types and identify each.