

3. Describe the mathematical relationship between the graphed variables.
4. What is the general & translated equations for the graph produced?
5. What numeric value was calculated for the slope resulting from this data? Is this number close to value we have seen and used in our last unit, if so what do we call that value?

Practice –

The equation that relates mass to weight is $F_g = ma_g$, where a_g (acceleration due to gravity) is 9.8 m/s/s .

1. A toy car has a mass of 2.5 kg. What is the car's weight?
2. A block of lead has a mass of 33 kg. What is the block's weight?
3. A block weighs 72.4 N. What is the block's mass?
4. A book weighs 8 N. What is the block's mass?
5. A car has a mass of 89.5 kg. What is the car's weight?