The following equation describes the height of a penny when dropped off the balcony of an 80-foot-high building. The equation is $y=-16t^{2}+80$, where *t* represents the seconds since the penny was dropped, and *y* is the height of the penny from the ground. For this equation, answer the following:

1) Where is the penny at 80 feet? 0 feet?

2) Evaluate the above equation for *t* = 4. What does this value mean? Does this make any sense?

3) Evaluate the above equation for *t* = 2. What does this value mean? Does this make any sense?

4) What is the domain and range for this equation? What is the practical domain and range for this equation? Why are they different?