

Name _____ Date _____ Period _____

Homework: Earth vs Moon Weight

The gravitational pull of the Moon is not as great as that of Earth. If a person checks their weight on the Moon, it will be only $\frac{1}{6}$ of their weight on Earth.

1. Complete the table of values for a person's weight on earth, weight on the Moon, and difference of the two weights. Use negative numbers when the weight is less than the person's weight on Earth.

Weight on Earth (lb)	186	168		198		
Weight on Moon (lb)			29		21	24
Weight Differential	-155					

2. Graph the weight differential versus the weight on Earth on the back side of this worksheet.
 - a. Which quadrant will you be plotting your points?

b. Why does this quadrant make the most sense?

3. Which of these **graphed** quantities is dependent and which is independent?

Weight on Earth (lbs)

Weight Differential (lbs)

