

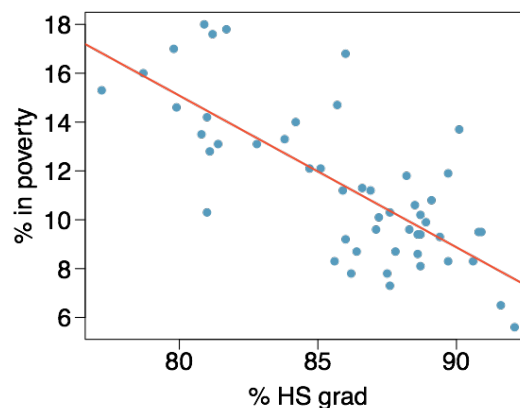
In-Video Quiz Questions for  
Unit 6: Part 2 – (2) Least Squares Line

(05:12) – slide 7, after “What is really important is how do we interpret this number, negative 0.62.”

1. The slope is calculated as -0.62.

**Fill in the blank:** For each percentage point increase in HS graduate rate, we would expect the percentage living in poverty to be lower on average by \_\_\_\_\_.

- (a) 0.062%
- (b) 0.62%
- (c) 6.2%
- (d) 62%



(06:13) – slide 7, after “you would be able to decrease poverty by .62 percentage points.”

2. The regression model for predicting length of gestation (in days) from life span for mammals (in years) has a slope of 0.08. Which of the following is the best interpretation of this slope?

- (a) For each additional year of life span, gestation is expected to be higher on average by 0.08 days.
- (b) Each additional year of life span increases gestation by 0.08 days.
- (c) For each additional day of gestation, life span is expected to be higher on average by 0.08 years.
- (d) Each additional day of gestation increases life span by 0.08 years.

**(09:35) – slide 7, after “However, in context, it is not a very useful number.”**

3. The regression model for predicting length of gestation (in days) from life span for mammals (in years) has an intercept of 8.86. Which of the following is the best interpretation of this intercept?

- (a) Not gestating leads to a life span of 8.86 years.
- (b) Mammals whose lifespan is 0 years are expected on average to have a gestation of 8.86 days.
- (c) For each additional day of gestation, life span is expected to be higher on average by 8.86 years.
- (d) For each additional year of life span, gestation is expected to be higher on average by 8.86 days.

**Answers:**

1. b
2. a
3. b