

Exer 4.2

In studies of employment discrimination, several attributes of employees are often relevant:

age, sex, race, years of experience, salary, whether promoted, whether laid off

For each of the following questions, indicate which is the response variable and which is the explanatory variable.

1. Are men paid more than women?

Response Variable:

age sex race years.experience salary promoted laid.off Exer 4.2-1

Explanatory Variable:

age sex race years.experience salary promoted laid.off Exer 4.2-2

2. On average, how much extra salary is a year of experience worth?

Response Variable:

age sex race years.experience salary promoted laid.off Exer 4.2-3

Explanatory Variable:

age sex race years.experience salary promoted laid.off Exer 4.2-4

3. Are whites more likely than blacks to be promoted?

Response Variable:

age sex race years.experience salary promoted laid.off Exer 4.2-5

Explanatory Variable:

age sex race years.experience salary promoted laid.off Exer 4.2-6

4. Are older employees more likely to be laid off than younger ones?

Response Variable:

age sex race years.experience salary promoted laid.off Exer 4.2-7

Explanatory Variable:

age sex race years.experience salary promoted laid.off Exer 4.2-8

[Note: Thanks to George Cobb.]