



2. From a group of 50 people, we collect the following pairs of data. In some cases the data would be appropriate cases for calculating a correlation coefficient, and some would not. Circle the right answer for each.

a) Height vs Eye Color

Appropriate      Not Appropriate

b) Weight vs Body Temperature

Appropriate      Not Appropriate

c) Age vs Student ID Number

Appropriate      Not Appropriate

d) Statistics Exam 1 score vs Statistics Exam 2 score

Appropriate      Not Appropriate

3. Suppose an experiment comparing a variable  $X$  to a variable  $Y$  yielded the following best-fitting line:

$$\hat{Y} = 3.5X + 10$$

a) Predict the value for  $Y$  when  $X = 20$ .

b) Predict the value for  $Y$  when  $X = 2$ .