

SKIS - Chapter 12 (Practice) Exam

1. The data in the table shows the number of completed passes and the number of yards gained by the Atlanta Falcons in each game of the 2017 regular season.

Completed passes	21	19	24	24	24	23	18	24	22	19	27	16	15	17	22	28
Yards gained	372	364	428	389	339	343	386	355	336	279	516	275	343	410	331	371

- (a) Which variable should be used as the explanatory variable? Explain your reasoning.
- (b) Which variable should be used as the response variable? Explain your reasoning.
- (c) Construct a scatterplot to display the relationship between number of completed passes and number of yards gained.
- (d) Describe the association between number of completed passes and number of yards gained.

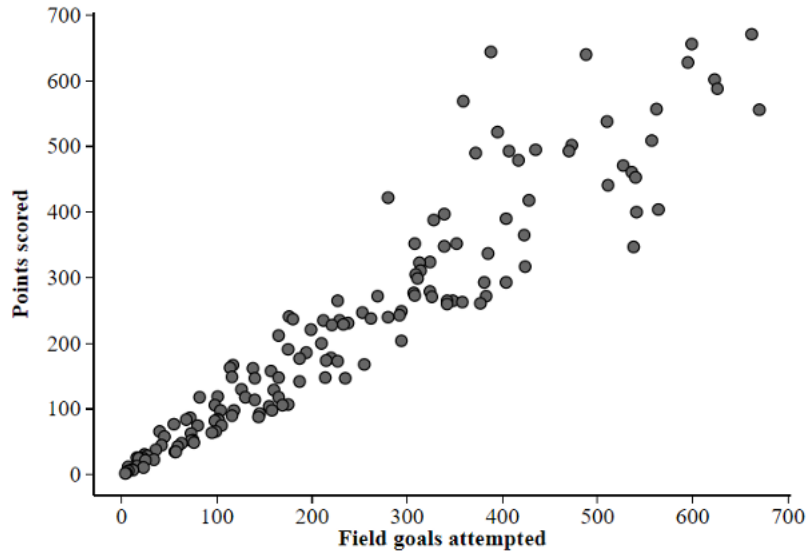
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2. We expect players who shoot more often would score more points. The scatterplot shows the relationship between field goals attempted and the number of points scored for all WNBA players during the 2017 season.



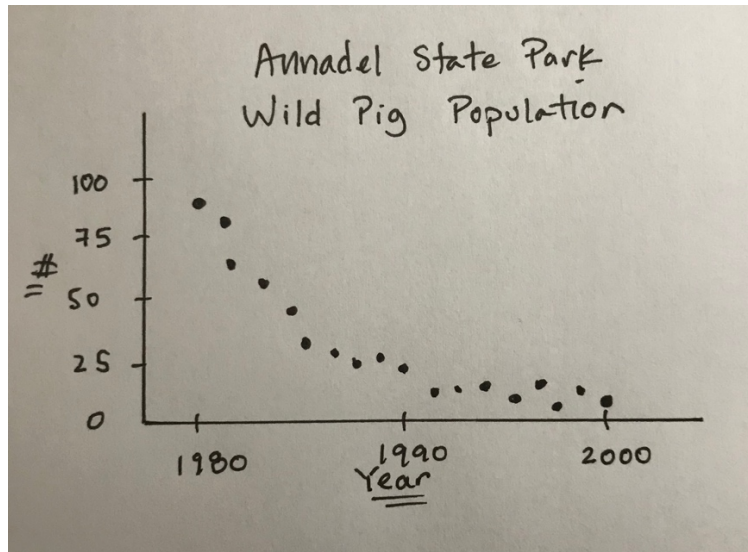
(a) Which variable should be used as the explanatory variable? Explain your reasoning.

(b) Which variable should be used as the response variable? Explain your reasoning.

(c) Describe the association between number of field goals attempted and points scored.

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3. A local biologist studied the Wild Pig population in Annadel State Park for a number of years. Here is a scatter plot of the annually gathered data:



(a) Which variable should be used as the explanatory variable? Explain your reasoning.

(b) Which variable should be used as the response variable? Explain your reasoning.

(c) Describe the association between Year and the Wild Pig population..

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