

See attached for graphs.

1b)  $\hat{y} = 1.29x + 465$

c) 0.73, strong-to-moderate positive correlation

d) HRs hit predict 53% of variability in runs scored

2b)  $\hat{y} = 3.645x - 200$

c) 0.67, moderate positive correlation

d) AVE predicts 45% of variability in runs scored

3b)  $\hat{y} = 4.643x - 751$

c) 0.92, strong pos. corr.

d) OBP predicts 86% of variability in runs scored

4b)  $\hat{y} = 2.551x - 315$

c) 0.94, strong pos. corr.

d) SLG predicts 88% of variability in runs scored

5) Each home run is worth 1.29 runs, on average

6) OBP and SLG

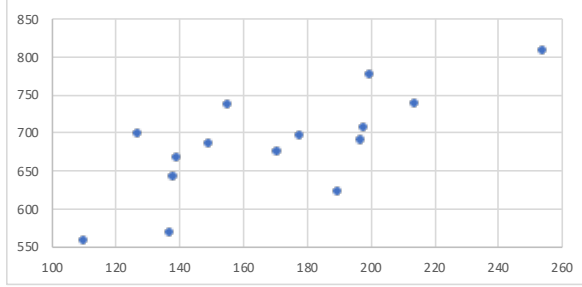
7)a) 4.643

b) 2.551

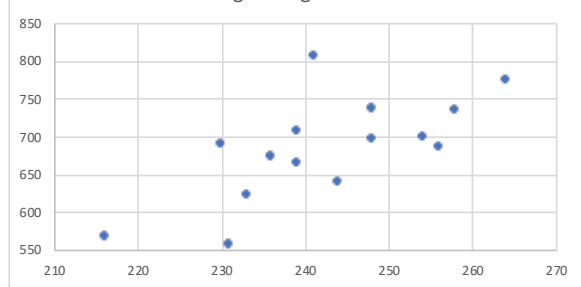
c) about 2 times as much (1.82 times as much)

8) Yes. Statistics is amazing.

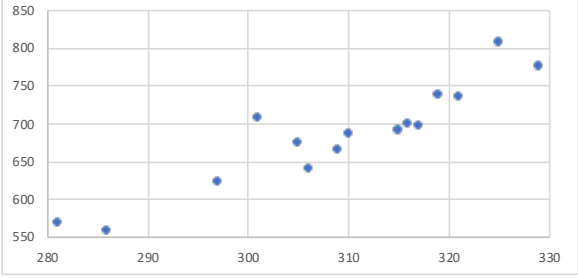
HOME RUNS and RUNS



Batting Average and RUNS



On-base percentage and RUNS



Slugging percentage and RUNS

