

# \_\_\_\_\_

AP STATS HW

Name \_\_\_\_\_

\_\_\_\_\_

Jeff and Walter are teammates on their bowling team. When they are not bowling in their league games they like to compete with each other for the highest score. Their bowling scores vary as they bowl many games. Walter's score  $X$  has the  $N(226,21)$  distribution. Jeff has a slightly better average than Walter which may be due to the fact that Walter does not bowl on Saturdays. Jeff has a score distribution  $Y$  of  $N(241,13)$ .

Assuming their scores are independent, what is the probability that Walter will score higher than Jeff in their next game of bowling?