MATH-111 (DUPRÉ) 5 NOVEMBER 2008 QUIZ IN LECTURE

1. ————————————-PRINT LAST NAME (IN LARGE CAPITALS): ANSWERS
2. ————————————————PRINT FIRST NAME (IN CAPITALS):
3. ————————————————————————-CIRCLE LAB DAY—-T—-TH
4. ————————————————-CIRCLE LECTURE HOUR—-11AM—-1PM
5. ANSWERS MUST BE CORRECT TO THREE SIGNIFICANT DIGITS
6. Suppose that fish weight is normally distributed with mean $\mu = 25$ pounds and standard deviation $\sigma = 7$ pounds.

A. What is the probability that a fish has weight between 15 and 30 pounds?

$$normalcdf(15, 30, 25, 7) = .6859110411$$

B. What is the probability that a fish weighs less than 22 pounds?

$$.5 + normalcdf(25, 22, 25, 7) = .3341176018$$

C. What is the probability that the average weight of 10 fish is between 24 and 28 pounds?

$$normalcdf(24, 28, 25, 7/\sqrt{(10)}\,) = .5866097258$$

D. What is the least a fish can weigh and still be in the upper ten percent in fish weight?

$$invNorm(.9, 25, 7) = 33.97086097$$