163. The scores on the final exam in Ms. B's Latin class have a normal distribution with mean θ and standard deviation equal to 8. θ is a random variable with a normal distribution with mean equal to 75 and standard deviation equal to 6.

Each year, Ms. B chooses a student at random and pays the student 1 times the student's score. However, if the student fails the exam (score ≤ 65), then there is no payment.

Calculate the conditional probability that the payment is less than 90, given that there is a payment.

(A) 0.77

(B) 0.85

(C) 0.88

(D) 0.92

(E) 1.00