# Multiple Choice Question Response

To find the proportion of people with IQs above 130, I need to calculate the probability P(X > 130) where X follows a normal distribution with μ = 100 and σ = 15.

First, I'll convert the value to a standard normal (Z) score:

Z = (X - μ)/σ = (130 - 100)/15 = 30/15 = 2

Now I need to find P(Z > 2). For a standard normal distribution:

P(Z > 2) = 1 - P(Z ≤ 2) = 1 - 0.9772 = 0.0228

This means approximately 2.28% of people have IQs above 130.

Looking at the answer choices:

- (A) 0.95: This is P(Z < 1.645), not our answer

- (B) 0.68: This is approximately P(-1 < Z < 1), not our answer

- (C) 0.05: This is P(Z > 1.645), not our answer

- (D) 0.025: This is P(Z > 1.96), not our answer

The closest value is (C) 0.05, but it's not precisely correct. The exact answer is 0.0228 or approximately 0.023, which is closer to (D) than to (C).

Therefore, the answer is (D) 0.025.