

Question #248

Key: B

The sample mean is $0.2(400) + 0.7(800) + 0.1(1600) = 800$.

The sample variance is $0.2(400 - 800)^2 + 0.7(800 - 800)^2 + 0.1(1600 - 800)^2 = 96,000$.

The sample third central moment is

$0.2(400 - 800)^3 + 0.7(800 - 800)^3 + 0.1(1600 - 800)^3 = 38,400,000$.

The skewness coefficient is $38,400,000 / 96,000^{1.5} = 1.29$.