

61. Solution: A

The first quartile, $Q1$, is found by $\frac{3}{4} = \int_{Q1}^{\infty} f(x) dx$. That is, $\frac{3}{4} = (200/Q1)^{2.5}$ or

$Q1 = 200 (4/3)^{0.4} = 224.4$. Similarly, the third quartile, $Q3$, is given by $Q3 = 200 (4)^{0.4} = 348.2$. The interquartile range is the difference $Q3 - Q1$.