Answer on Question # 40972 - Math - Statistics

Assume that the mean hourly cost to operate a commercial airplane follows the normal distribution with a mean of $2,125 per hour and a standard deviation of $280.

What is the operating cost for the lowest 6 percent of the airplanes? (Round z value to 2 decimal places. Omit the "$" sign in your response.)

Answer:

Z value is calculated

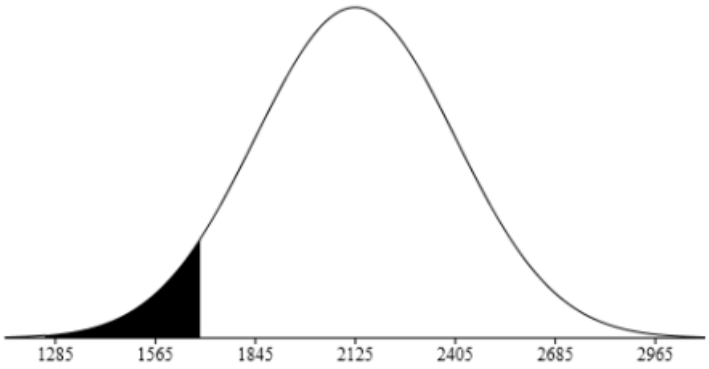
Z=(X-m)/StDev

Z =(X-2125)/280

Z value for 6% interval is 1.5571 (table value). Thus:

X=1689.57

Operating cost for the lowest 6 percent of the airplanes is 1689.57



Area from a value (Use to compute p from Z)
Value from an area (Use to compute Z for confidence intervals)

Specify Parameters:

Area	0.06
Mean	2125
SD	280

Results:

Recalculate

Above	
Below	1689.573
Between	
Outside	