· Normal distribution 11/10/2023: · Z-scores not necessarily e you just need M percentile and of

Tif X is normal

Normal

Probabilit. 67% Example We create lightballs avy lifespan 1500 hrs - Stel der 75 hrs - lifespan is normally dist hus lifespan Q: Prob Righthalls between 1100 45

randomly selector
$$|400 - 1500|$$

$$|400 - 1500| = -1.25 \rightarrow 10.56\%$$

$$|600 - 1500| = 1.25 - 7.89.43\%$$

$$|400 - 1500| = 89.43\%$$

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W (500 (6

Example -> . 20% fails final.

Final arg score 62

Std dev = 13

How many pts on final are needed to pass? -0.84 x-620.84 Must gat 51.08 51.08 pts X is normul 18% of values are above 29. · M= 25 82% what's o?

$$0.92 = \frac{29 - 25}{5}$$

$$\sqrt{50 - 4.347}$$

X is binomial (discrete)

L7 able to approx what the normal distinction (gives probability)

If (1) Ap 2 (0) Example of success

(2) $\Lambda((-p) 210$