

ACT $\mu=21$

$$
\sigma=4.7
$$

Mad Max $=29$
What is percentile rank?

0.9554 $\approx 96^{\text {th }}$

What sure results in a percantib rank of $45 \%$.

$-0.13=\frac{x-21.41}{4 \pi}$
$-0.611=x-21$

$$
20.389=x
$$

$$
20.4 \approx x
$$

$$
z=1.70
$$

NC 2022 Fostban

$$
\begin{aligned}
& \mu=171 \mathrm{lb} . \\
& \sigma=42.2 \mathrm{lb} .
\end{aligned}
$$

45 players.
Coach will cat the smallest $15 \%$ of the team. What is the


$$
\begin{aligned}
& -44.408=x-171 \\
& +171
\end{aligned}
$$

$$
\begin{gathered}
126.592=x \\
12716=x
\end{gathered}
$$

If the team is normally di stributed how many players weigh over 200 lbs?


Z-scom for bot

Calculator - Menu - Statistics - Distributions

Find \%:
Normal CDF

Find raw score:
Inverse Normal

- must give \% to loft


Inv Normal $(0.8,171,42.7)$

