

Billy Bob = 84

What is Billy Bob's percentle rank?

M = 66 5=18.4 Z=84-66

Z=0.98

Col. B

200 students took tot.

Col. B= 0.8365

How many surred

= 89th percentile

below 89th perunti6?

200 + 0.8365= 167

How many student sweed between 170 + 180?



Z= 170-160

7-0.54

Z= 180-160 18.4

Col. A 0.36 al black area - 0.2054 yellow are 0.1567

0.1567 x 200= 31 students

## 2022 Football - Weight of NC players

$$M = 171 \ lb.$$
 $S = 42.7 \ lb.$ 



45 players

1) If the team weights are normally distributed, how many players weighed over 200 lb.?

$$Z = \frac{200 - 171}{42.7} = 0.6711 \approx 0.68$$

Col. (= 0.2483 × 45= 11 players

Coach 6 will cut the lowest 20% in weight players?

Find raw score.

$$-\frac{0.84}{0.84} = \frac{x - 171}{42.7}$$



P Col C = 0.2000

0.84 0.2005 0.85 0.1977

