POLS weights Q,: How many ppl 25120 Frequency Weight (kg) 55 £ w 4 60 5 60 £ W < 65 3 17 65 5 W 2 70 · Wz: Draw a 12 70 E W L 75 31 Cumulative 14 751 W 180 19 50 805W285 87 dist gruph 85 E W 4 90 109 905 VX 95 120 120 You extend 110 40 XHIR 80 70 60 50 4 v 7030 85 90 9 80 55 Z-score: Given a data set X \_ how many x - pl std dev. oc is away μ= mean Z-Score of form 11.

the point & o = Std. You can always compute 2-Scare you M20 Normal distribution: 1 bell-shaped · unimodal @ (68-95-99.7 rule= X - is rurmally distributed  $-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2$ 

J.12T

Stel do median 4750% Under Normal distinsuitions Z-Scores 2 perentilles normally dist.

· Aug male wight is 197 lbs - Stol der: 25 lbs What percentile is 150/s? 1) compute 2-score:  $2 = \frac{150 - 197}{25}$ E) Find perentile in 2-1000 2 301%

o A battery has a normal dist. · Avy Rifespan: 33.2 weeks Stol der: 2-8 weeks Find probability of a battery lastry at least 35 Wks 235wlcs = 35-33.2 >> places 23.89 %

L>1-73.89

(269<sub>p</sub> finel the max # of whos a manufacterer can expect that No more than 8% of Lats W711 fa ( \ . - 33.2

x=29,25 Problem Set #3 Weel ([59 Callege Source