LEC 9-LIVE

36, 36, 38, 38, 38, 39, 39, 39, 40, 40

$$P(X \leq 38) = \frac{5}{10}$$

$$P(x > 38) = \frac{8}{10}$$

1 638 is a median

$$P(X \le 39) = \frac{8}{10}$$

Ex

P(X2M) ?]

P(x < m) = =

Median

 $p = F_{X}(x) = \sum_{k \leq k} P(x = k)$ Q(P) = min {x ∈ B F(x) > p {

NEW, OFFICIAL DEF. .. I MEDIAN Def Any number McR sd. P(X < m) > /2 AND P(x > m) > 1/2 is called the median of X Any m = [38,39] 15 # median :... Any m ~/ 38 < m < 39