Example Mean, Mediand Made:

dakset: [4, 8, 6, 5, 3, 8, 9, 2, 8, 3]

mean = 4+8+6+5+3+8+9+2+8+3 = 56 = 5.6

Imedian: 12,3,3,4,(5,6)8,8,8,9

5+6 = 15.5

mode: Most Repeated value

Problem 28 Normal Distribution.

The heights of a certain population are normally distributed with a mean of 170 cm and a standard deviation of 10 cm.

1- What is the probability that a randomly educted person has a height between 160 cm and 180 cm?

For 160cm = 160-170 = -1 P(-15751) \approx 0.6826

Fa 180cm = 180-170 : 1

	- 1	ed.
• /)	n + 1	on:
IJ	$u \iota \iota$	

						. 7
2.	asto What	height	represents	the	95th post	extile!

X=2+2.0=170+1.645x10=186.45cm

Problem 3: Binomial Distribution

A factory produces light bulbs, and it is known that 5% of the light bulbs are detective. A quality control inspector randomly selects 20 years bulbs.

WALK ST.

1. What is the probability that exactly 2 light bulbs are defective?

8 n=20, k=2 and p=0.05.

 $(20,05)^2(0.95)^{18}\approx 0.1887.$

german is the possessitive that at most a light soft is defeating

Proben u: Uniform Dishabokan. On only of sixton of the mind The time it takes to travel to work is uniformly distributed between 30 miroles and 60 mindles not me a to be sell being Take

1. What is the probability that the travel time is less than 45 minutes?

45-30: 15: 1 : 05

Dated:

0

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9

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9

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2- what is the expected trad time?

30+60- 45 minutes

Protem S: Basic Propositing.

A box contains 5 red balls, 3 blue balls, and 2 green balls Aball is drawn at randono.

1. What is the probability of drawing a red ball?

P(Red): 5: 1

2. What is the probability of drawing a the or green ball?

P(Bue Or Green) = P(Blue) + P(Green) = 3 + 2 = 5 = 1 = 0.5