$$x_1 = \frac{110 - 100}{150 - 100}$$

$$\chi_2 = \frac{105 - 100}{150 - 100} = \frac{100.11}{50} + 10.71$$

$$\pm \frac{1}{10}$$
 $= 0.1$ 

$$2^{2}3 = \frac{115 - 100}{150 - 100}$$

$$= \frac{15}{50}$$

$$= 0.3$$

$$\times \text{ new} = \frac{\chi(-min(x))}{\max(x) - \min(x)}$$

$$26 = \frac{130 - 100}{38001500100}$$

$$= \frac{30}{30}$$

= O \* X - 1X

 $\chi_9 = \frac{105 - 100}{150 - 100}$  broshopt

= 50 0 0

= 0.1

standardization

Means US ?

0=11

ream 12 attation + 115 + 120 + 110+ 130 + 150 + 100 + 105

-		
	Profee	Normalized Price
	11.61110	0.2
	105	0.1
	115. 5	0.3
	120	0.4
	110	0.2
-	130	111.310.6 att) = (1_816)
1	161. 150	1
	) = 15.00t321	(M-1) = (120-016-11)
	105	0.1
	126110 115 -	(1) - X

## Standardization oot- oot

Mean, U=?

N= 9

$$X_i^2 - X_{mean}$$

Standard Deviation

Standard Deviation:

$$\sigma = \sqrt{\sum_{i} (x_{i}^{2} - \mu)^{2}}$$

$$(\alpha_1 - \mu)^2 = (110 - 116.111)^2 = 37.3443$$

$$(22-\mu)^2 = (105 - 116.111)^2 = 123.4543$$

$$(x_3 - u)^2 = (115 - 116.111)^2 = 1.2343$$

$$(24-4)^2 = (120-116.111)^2 = 15.124321$$

$$(x_5 - w)^2 = (110 - 116.111)^2 = 37.344321$$

$$(x_6 - \mu)^2 = (130 - 116.111)^2 = 192.904321$$

$$(\chi_{7} - \mu)^{2} = (150 - 116.111)^{2} = 1148.46432$$

$$(\chi_{8} - \mu)^{2} = (100 - 116.111)^{2} = 259.564321$$

$$(\chi_{9} - \mu)^{2} = (105 - 116.111)^{2} = 123.454321$$

 $\sum (x_1^2 - \mu)^2 = 37.3443 + |123|.4543 + |1.2343|$  + |15.124321 + |37.344321 + |192.90432| + |148.46432 + |259.564321 + |123.454321|

= 1938.88883

economic between

$$0 = \sqrt{\frac{\sum (x_1^2 - \mu)^2}{\sum (x_1^2 - \mu)^2}} = \sqrt{\frac{1938.8883}{2}}$$

= 14.67760511800 + 18.181

≥ 0.264961

Xnew = Standard deviation 14.6776051 01416314857710 10 1000 105 - 116.111 105 - 116.111 14.6716051 FRAM 8111 + = -0.757003607 100 601 14.6776051 = -6.0756935476 120-116.111 14.6776051 3031 0.264961

$$x_5 = \frac{110 - 116 \cdot 111}{14.6776051} = 0.001 = 0.001$$

= -0.416348577860016110

= 0.946271541

 $\chi_{7} = \frac{150 - 116.111}{14.6776051}$ 

= 2.30889166

3889196

 $% = \frac{100 - 116.111}{14.6776051}$ 

= - 1.09765864

$$x_9 = \frac{105 - 116.111}{14.6776051}$$

= - 0.757003607

130-116-111

Price	Standardized Prize
1100000	+0.4163 48577
105	-0.757003607
145, 110	-0.0756935476
120	0.264961
110	-0.416348577
130	0.946271541
150	2.30889166
100	-1.09765864
105	-0.757003607

Phice Phice		111
Price	011	
NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED IN COLUMN 2 1997 AND THE OWNER, WHEN PERSON NAMED IN COLUMN A 1997 AND THE OWNER, WHEN PERSON NAMED IN COLUMN A 1997 AND THE OWNER, WHEN PERSON NAM	Loganithm	2001
110	log 110	2.041393
1107 1207 120	Catt 1011 of the	2.02 1189
i midsom bind	105	و دور المسلم
115	Log 115	2.060698
120 081	109 120	2.079181
110	log 110	2.041393
130	011 2 130	2.113943
150	log 150	2.176091
100	209100	2.000000
105	Log 105	2.021189
	105 115 110 110 110 150 150	105 log 105  115 log 145  120 log 120  100 log 120  150 log 150  100 log 150

110

	IVE ST		
10 million for	* Scale	= 27 - 2	med 25
00, 105, 105, 110 (110) 115	1411.6	011	
00, 105, 105, 110, 110, 115	, 120,	130, 150	
ven, number of data,	hence	median	3
109 160	1.038	115	
00, 105, 105, 110, 110	15, 120,	130, 150	

Median 110

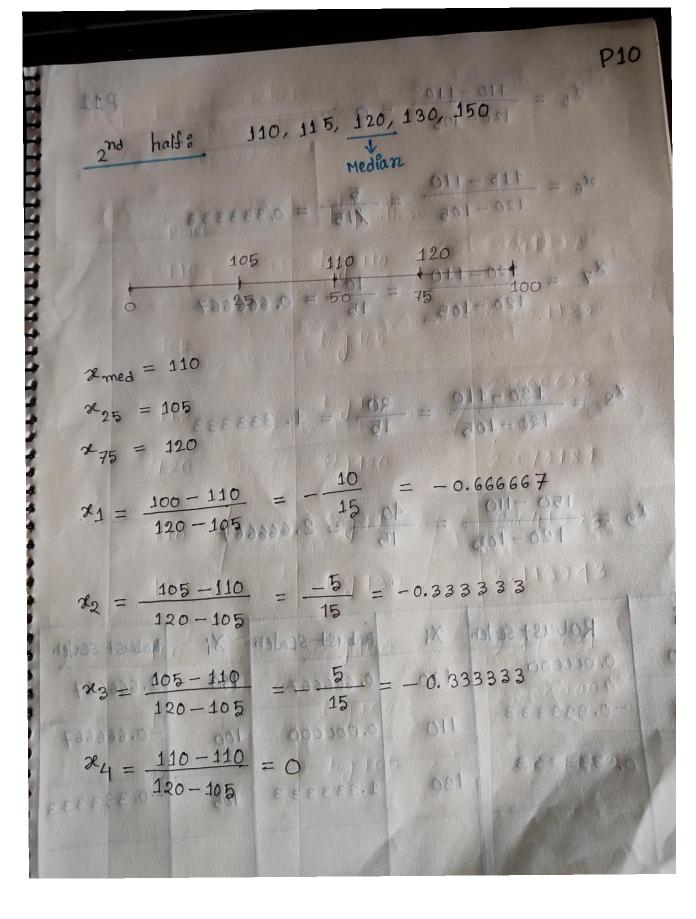
1st half? 100, 105, 105, 110, 110

Median 150

130

2.346091 2,000000

105 001 25 75 100



$$x_5 = \frac{110 - 110}{120 - 105} = 9 (811 .011)$$

$$x_6 = \frac{115 - 110}{120 - 105} = \frac{5}{115} = 0.3333333$$

$$x_7 = \frac{120 - 110}{120 - 105} = \frac{10}{15} = 0.666667$$

$$x_8 = \frac{130 - 110}{120 - 105} = \frac{20}{15} = 1.3333333$$

$$x_9 = \frac{150 - 110}{120 - 105} = \frac{40.5}{15} = 2.666667$$

Xi	Robust scaler	X;	Robust scalen	Xi	Robust scaler
110	0.000000 8 8 8 8	120	0.666667	150	2.666667
105	-0.333333	110	0.000000	100	-0.666667
115	0, 333333	130	1.333333	105	-0.33333

$$84 = \frac{110}{150} = 0.7333333$$

$$\chi_2 = \frac{105}{150} = 0.7$$

$$23 = \frac{115}{150} = 0.766667$$

$$24 = \frac{120}{150} = 0.8$$

$$\chi_5 = \frac{110}{150} = 0.7333333$$

$$x_6 = \frac{130}{150} = 0.866667$$

$$x_8 = \frac{100}{150} = 0.666667$$

$$x_9 = \frac{105}{150} = 0.7$$

Price	man Absolute scalen
110	0.733333
105	0.7
115	0.766667
120	0.8
110	0.733333
130	0:866667
150	1.0
100	0.666667
105	0.7