## <u>Tasks</u>

# **Score Interpretation**

### NAMA : ANDI ARNAISAH BINTI ANDI ARNIS

#### **NO MATRIK : 148634**

1. State TWO differences between norm-reference interpretation and criterion- reference interpretation.

1

Norm-reference	Criterion-reference				
These test measure student's	These assessment and test that				
performance in comparison to	measures student's performance				
other students					
Its main objective is to assess a	Its main objective is to help students				
student's performance with other	learn without getting questioned				
students.	about grades.				
Their criteria changes with	They have fixed criteria for				
outcomes.	assessment.				
Judged on the basis of other	Each student is independently				
student's performance.	assessed.				

2. Calculate the PR, Z-score and ETS for the raw scores below:

X (raw score)	f (frequency)
75	1
74	1
69	2

67	2
65	3
61	3
59	2
58	2
54	2
49	1
48	1

### Answer:

Х	F	PR	F(x)	(x-x)	(x-x) <sup>2</sup>	f(x-x) <sup>2</sup>	Z	ETS
(raw	(frequency)							
score)								
75	1	97.5	75	13.1	171.61	171.61	1.82	682
74	1	92.5	74	12.1	146.41	146.41	1.68	668
69	2	85	138	7.1	50.41	100.82	0.99	599
67	2	75	134	5.1	26.01	52.02	0.71	571
65	3	62.5	195	3.1	9.61	28.83	0.43	543
61	3	47.5	183	-0.9	0.81	2.43	-0.13	487
59	2	35	118	-2.9	8.41	16.82	-0.40	460
58	2	25	116	-3.9	15.21	30.42	-0.54	446
54	2	15	108	-7.9	62.41	124.82	-1.1	390
49	1	7.5	49	-12.9	166.41	166.41	-1.79	321
48	1	2.5	48	-13.9	193.21	193.21	-1.93	307

	English Test								
	X (raw score)	f (freque ncy)	PR	f ( <i>x</i> )	(x - x)	$(x-\overline{x})^2$	$f(x-x)^2$	z	ETS
	75	1	97.5	75	13.1	171.61	171.61	1.82	682
	74	1	92.5	74	12.1	146.41	146.41	1.68	668
-	69	2	85	138	7.1	50.41	100.82	0.99	599
	67	2	75	134	5.1	26.01	52.02	0.71	571
	65	3	62.5	195	3.1	9.61	28.83	0.43	543
	61	3	47.5	183	-0,9	0.81	2.43	-0.13	487
	59	2	35	118	-2.9	8.41	16.82	-0.40	460
-	58	2	25	116	-3.9	15.21	30.42	-0.54	446
	54	2	15	108	-7.9	62.41	124.82	-1,1	390
	49	1	7.5	49	-12.9	166.41	166.41	1.79	321
-	48	1	2.5	48	-13.9	193.21	193.21	-1.93	307

## **Remarks:**

To calculate SD, sum up the values in column 7, divided by N (20), then square root it.

SD = 171.61 + 146.41 + 100.82+ 52.02 + 28.83 + 2.43 + 16.82 + 30.42 + 124.82 + 166.41 + 193.21

20

= 1033.8	
20	
= 51.69	
$=\sqrt{51.69}$	
SD = 7.2	