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**Nombre del trabajo: Mapa
conceptual.**

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tarea de plataforma carta x carta r

dias	m1	m2	m3	m4	m5	m6	m7
1	29.5	28.5	28	30	28	30	29
2	28	27	27.5	26.5	26	27	30
3	27.5	26	26.5	27	27	25.5	27
4	28	30	28	31	29	28	25
5	27	26	27	27	26.5	26	30
6	29	29	30	28.5	27	28	28
7	30	28	31	28.5	29	28.5	29
8	31	27.5	29	28	30	29	27
9	29	28	30	27	28	27	26.5
10	27	28.5	27	29	27	28	29
11	29	29	27	29	30	28	28.5
12	32	30	31	29	28	29	26
13	28	30.5	29	29.5	31	31	30
14	29	29.6	31	30	29	28	29
15	27	30	28	31	30	29	30

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X-BAR , R CHART	
\bar{x} Chart Control Limits	
UCL =	$\bar{\bar{x}} + A_2 \bar{R}$
LCL =	$\bar{\bar{x}} - A_2 \bar{R}$
R Chart Control Limits	
UCL =	$D_4 \bar{R}$
LCL =	$D_3 \bar{R}$

dias	m1	m2	m3	m4	m5	m6	m7	media	rango	max	min
1	-0.5	-1.5	-2	0	-2	0	-1	-1	2	0	-2
2	-2	-3	-2.5	-3.5	-4	-3	0	-2.571429	4	0	-4
3	-2.5	-4	-3.5	-3	-3	-4.5	-3	-3.357143	2	-2.5	-4.5
4	-2	0	-2	1	-1	-2	-5	-1.571429	6	1	-5
5	-3	-4	-3	-3	-3.5	-4	0	-2.928571	4	0	-4
6	-1	-1	0	-1.5	-3	-2	-2	-1.5	3	0	-3
7	0	-2	1	-1.5	-1	-1.5	-1	-0.857143	3	1	-2
8	1	-2.5	-1	-2	0	-1	-3	-1.214286	4	1	-3
9	-1	-2	0	-3	-2	-3	-3.5	-2.071429	3.5	0	-3.5
10	-3	-1.5	-3	-1	-3	-2	-1	-2.071429	2	-1	-3
11	-1	-1	-3	-1	0	-2	-1.5	-1.357143	3	0	-3
12	2	0	1	-1	-2	-1	-4	-0.714286	6	2	-4
13	-2	0.5	-1	-0.5	1	1	0	-0.142857	3	1	-2
14	-1	-0.4	1	0	-1	-2	-1	-0.628571	3	1	-2
15	-3	0	-2	1	0	-1	0	-0.714286	4	1	-3
total								-1.513333	3.5		

x chart	
LCL	-2.98
X BAR	-1.513
UCL	-0.047

A2	D3	D4
0.4	0.833	1.9242

R CHART	
LCL	2.9155
R BAR	3.5
UCL	6.7347

CARTA X				
MEDIA	VALOR	LCL	X BAR	UCL
	-1	-2.9798333	-1.5133	-0.04683
	-2.571429	-2.9798333	-1.5133	-0.04683
	-3.357143	-2.9798333	-1.5133	-0.04683
	-1.571429	-2.9798333	-1.5133	-0.04683
	-2.928571	-2.9798333	-1.5133	-0.04683
	-1.5	-2.9798333	-1.5133	-0.04683
	-0.857143	-2.9798333	-1.5133	-0.04683
	-1.214286	-2.9798333	-1.5133	-0.04683
	-2.071429	-2.9798333	-1.5133	-0.04683
	-2.071429	-2.9798333	-1.5133	-0.04683
	-1.357143	-2.9798333	-1.5133	-0.04683
	-0.714286	-2.9798333	-1.5133	-0.04683
	-0.142857	-2.9798333	-1.5133	-0.04683
	-0.628571	-2.9798333	-1.5133	-0.04683
	-0.714286	-2.9798333	-1.5133	-0.04683

CARTA Y			
RANGO	VALOR	LCL	UCL
	2	2.9155	6.7347
	4	2.9155	6.7347
	2	2.9155	6.7347
	6	2.9155	6.7347
	4	2.9155	6.7347
	3	2.9155	6.7347
	3	2.9155	6.7347
	4	2.9155	6.7347
	3.5	2.9155	6.7347
	2	2.9155	6.7347
	3	2.9155	6.7347
	6	2.9155	6.7347
	3	2.9155	6.7347
	3	2.9155	6.7347
	4	2.9155	6.7347

