Actividad no. 2 [illegible]

[illegible]

49	55	65	66	66	70	72	72	72
74	75	75	76	76	77	78	79	80
81	81	81	81	82	84	90		

2) [illegible]

k = 1 + 3.322 log (n)
k = 1 + 3.322 log (25)
k = 1 + 3.322 (1.39794)
k = 1 + 4.64
k = 5.64

3) [illegible]

90 - 49 = 41
41 + 1 = 42

4) [illegible]

k = 5.64 / 42 = 1) 1.45 1) 7

[illegible]	Li	Ls	Xi	fi	Fa	fi·Xi
49-55	48.5	55.5	52	2	2	104
56-62	55.5	62.5	59	0	2	0
63-69	62.5	69.5	66	3	5	198
70-76	69.5	76.5	73	9	14	657
77-83	76.5	83.5	80	9	23	720
84-90	83.5	90.5	87	2	25	174
						1853

$\bar{X} = \frac{1855}{25} = 74.12$

Actividad. No.8 de Krissy Lopez

1. Ordenar datos

49	55	65	66	66	70	72	72	72
74	75	75	76	76	77	78	79	80
81	81	81	81	83	84	90		

2) Calcular k

$k = 1.+3.322 \quad \log(n)$
$k = 1.+3.322 \quad \log(25)$
$k = 1.+3.322 \quad (1.39794)$
$k = 1.+4.64$
$k = 5.64$

3) Calcular R

$90 - 49 = 41$
$41 + 1 = 42$

4) Calcular I

$I = \frac{5.64}{42} = R) \ 1.45 \quad I) \ 7$

Intervalo	x_i	$+\frac{I}{2}$	x_s	f	fa	$x_s f$
49-55	48.5	55.5	52	2	2	104
56-62	55.5	62.5	59	0	2	0
63-69	62.5	69.5	66	3	5	198
70-76	69.5	76.5	73	9	14	657
77-83	76.5	83.5	80	9	23	720
84-90	83.5	90.5	87	2	25	174
						1853

$\bar{x} = \frac{1853}{25} = 74.12$

Mediana

Frisly López

$\frac{25}{2} = 12.5$

$Md = li + \left(\frac{N}{2} - faa\right) i$

$Md = 69.5 + \left(\frac{12.5}{9} - 5\right) 7$

$Md = 69.5 + \left(\frac{7.5}{9}\right) 7$

$Md = 69.5 + (0.83) 7$

$Md = 69.5 + 5.81$

$Md = 75.31$

Moda

$\Delta^1 = 9 - 9 = 0$

$\Delta = 9 - 2 = 7$

$MO = li + \left(\frac{\Delta 1}{\Delta^1 + \Delta^2}\right) i$

$MO = 16.5 + \left(\frac{0}{0+7}\right) 7$

$MO = 16.5 + 0$

$MO = 16.5$

Calcula cuartiles 4,7,3,

Frany lopez

$Q1 = \frac{2.15}{11} \times 1 = 6.25$

$Q1 = 69.5 + \left(\frac{6.25 - 5}{9}\right)7$

$Q1 = 69.5 + \left(\frac{1.25}{9}\right)7$

$Q1 = 69.5 + (0.14)7$

$Q1 = 69.5 + 0.98$

$Q1 = 70.48$

$Q2 \quad \frac{15}{11} \times 2 = 12.5$

$Q2 = 69.5 + \left(\frac{12.5 - 5}{9}\right)7$

$Q2 = 69.5 + \left(\frac{7.5}{9}\right)7$

$Q2 = 69.5 + (0.83)7$

$Q2 = 69.5 + 5.81$

$Q2 = 75.31$

Frisly Lopez

Q3 $\frac{25}{4} \times 3 = 18.75$

$Q3 = 16.5 + (18.75 - 14) 7$

$Q3 = 16.5 + (\frac{4.75}{4}) 7$

$Q3 = 16.5 + (0.53) 7$

$Q3 = 16.5 + 3.71$

$Q3 = 20.21$

Calcular decil 2, 3, 6, 9

Decil 2 $\frac{25}{10} \times 2 = 5$

$D2 = 62.5 + (\frac{5-1}{3}) 7$

$D2 = 62.5 + (\frac{3}{3}) 7$

$D2 = 62.5 + (1) 7$

$D2 = 62.5 + 7$

$D2 = 69.5$

Foisly Lopez

Decil 6 $\frac{15}{10} \times 6 = 15$

$D6 = 16.5 + \left(\frac{15 - 14}{9}\right) 7$

$D6 = 16.5 + \left(\frac{1}{9}\right) 7$

$D6 = 16.5 + (0.11) 7$

$D6 = 16.5 + 0.77$

$D6 = 17.27$

Decil 9 $\frac{15}{10} \times 9 = 22.5$

$D9 = 16.5 + \left(\frac{22.5 - 14}{9}\right) 7$

$D9 = 16.5 \left(\frac{22.5 - 14}{9}\right) 7$

$D9 = 16.5 + \left(\frac{8.5}{9}\right) 7$

$D9 = 16.5 + (0.94) 7$

$D9 = 16.5 + 6.58$

$D9 = 83.08$

Calcular percentiles 15, 10 y 95 SVisy 16pc1

P 15 $\frac{25}{100} \times 15 = 3.15$

P15) $62.5 + (3.15 - 2) 7$

P15) $62.5 + (\frac{1.15}{3}) 7$

P15) $62.5 + (0.58) 7$

P15 = 62.5 + 4.06
P15 = 66.56

P10 $\frac{25}{100} \times 10 = 11.5$

P10 = $16.5 + [(\frac{11.5 - 14}{9}) 7$

P10 = $16.5 + (\frac{3.5}{9}) 7$

P10 = $16.5 + (0.39) 7$

P10 = 16.5 + 2.13
P10 = 19.23

Frisly Lopez

p 95 $\frac{25}{100} \times 95 = 23.75$

$p95 = 83.5 + (13.75 - 13) + \frac{75}{2}$

$p95 = 83.5 + (0.75) + \frac{75}{2}$

$p95 = 83.5 + (0.38) + 1$

$p95 = 83.5 + 2.66$

$p95 = 86.16$

Polígono de frecuencia.