

APELLIDOS			NOMBRE	NOMBRE		
ASIGNATURA	STATISTICS	(DESCRIPTIVE STA	T.) FECHA 2019	105/27	GRUPO	
CALIFICACIÓN						

1-) at
$$x = \frac{91}{12} - \frac{95833}{0.25}$$
 is $x_{12}^{2} = \frac{809}{0.25} - \frac{2833^{2}}{0.25} = \frac{99097}{0.25}$ cig²

 $y = \frac{3376}{12} = \frac{2.9717}{0.25}$ kg $x_{2}^{2} = \frac{929708}{0.25} - \frac{2.9717^{2}}{0.25} = 0.0654$ kg²

 $x_{2}^{2} = \frac{243.61}{12} - \frac{2.5833 \cdot 2.7717}{0.24} = \frac{0.7176}{0.25}$ cig kg

Rectession line 4 on $x : y = \frac{2.7717}{0.24} - \frac{0.7176}{0.9097}$ cos by $x = \frac{10.0724}{0.025}$ \Rightarrow The weight decrease 0.0724 kg per cigarnette smoked 0.25

b) legax = $\frac{23.0317}{12} + \frac{1.993}{0.25}$ logacig) $x_{2}^{2} = \frac{47.196}{12} + \frac{1.9193^{2}}{0.25} = \frac{0.2492}{0.25}$ logar) $x_{2}^{2} = \frac{1.2.4665}{0.25} - \frac{1.9193^{2}}{0.25} = \frac{0.2492}{0.25}$ logar) $x_{2}^{2} = \frac{1.2.4665}{0.25} - \frac{1.0155}{0.25}$ logar) $x_{2}^{2} = \frac{1.2.4665}{0.25} - \frac{1.2.4665}{0.25}$ logar) $x_{2}^{2} = \frac{1.2.4665}{0.25}$ logar) $x_{2}^{2} = \frac{1.2.4665}{0.25} - \frac{1.2.4665}{0.25}$ logar) $x_{2}^{2} = \frac{1.2.4665}{0.25}$

c) LREGRESSION LINE OF YON LOG(X): $\gamma = 2.7717 - \frac{0.1245}{0.2492} (xlog(xl-1.9193)=$ =7 7 = -0.4994 log(x) + 3.730/ 0.25

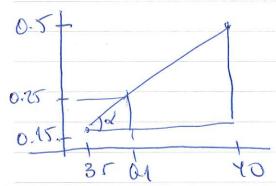
4(12) = -0.4994 log(12) + 3.730/ 0.25 COCARITHRIC REGRESSION TRODER 4(12) = -0.4994 log(12) + 3.730/ = 2.4892 kg It's not very relicible Since the sample size is small.

λ	×	ni	Hi	Pi
2) a)	30-35	15	15	0.15
	35-40	35	50	0.5
	40-45	40	90	0.9
	45-50	M	100	J

$$f_{3}(x) = \frac{0.9 - 0.5}{45 - 40} = \frac{0.9}{5} = 0.08$$

$$f_{3}(x) = \frac{F(42) - 0.5}{42 - 40} = \frac{F(42) - 0.5}{2}$$

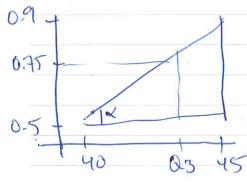
$$F(42) = 0.5 + 2 - 0.08 = 0.66 \Rightarrow 66\%$$



$$\frac{1}{40 - 35} = \frac{0.5 - 0.15}{40 - 35} = 0.07$$

$$\frac{1}{40 - 35} = \frac{0.25 - 0.15}{0.1} = \frac{0.1}{0.1}$$

$$\frac{1}{0.07} = \frac{0.5 - 0.15}{0.07} = \frac{0.1}{36 - 4286} = \frac{0.1}{0.07}$$



$$tg(x) = \frac{0.9 - 0.5}{45 - 40} = \frac{0.9}{5} = 0.08$$

$$tg(x) = \frac{0.75 - 0.5}{0.75 - 0.5} = \frac{0.25}{0.25}.$$

$$Q_3 - 40 \qquad Q_3 - 40$$

$$Q_3 = 40 + \frac{0.25}{0.08} = \frac{143.125}{0.08} \text{ min}$$

Half of the central times falls in a range of 6.6969 min

c) $\bar{\chi} = \frac{3975}{100} = \frac{39.75}{100} = \frac{39.75}{100} = \frac{18.6875}{100} = \frac{18.6875}{100} = \frac{1}{100} = \frac{1}{10$ 6x = 1/8.6875 = 14.3229 min CV = 4.3229 = 0.1088 0-25 · y=40 sy=5 cy=5=0.125 Since we cay the mean of Madrid is more little sit more representative than the mean of Pous. 0-25 d) g1x = -628.12 = 1-0.0778 0.5 Zay = 0.75 Sine gix is closer to o the distribution of times in Madrid is more simmetàc 0.5 e) 2(39) = 39-39-75 = T-0.1735 0.5 2/39)= 39-40 = -0.2 Since 2x(39) > 2x(39) the 39 min in the race of Paris is relatively emaller 0.5

