Actividad 2

NOMBRE DEL ALUMNO : Pablo jafet Davila covian

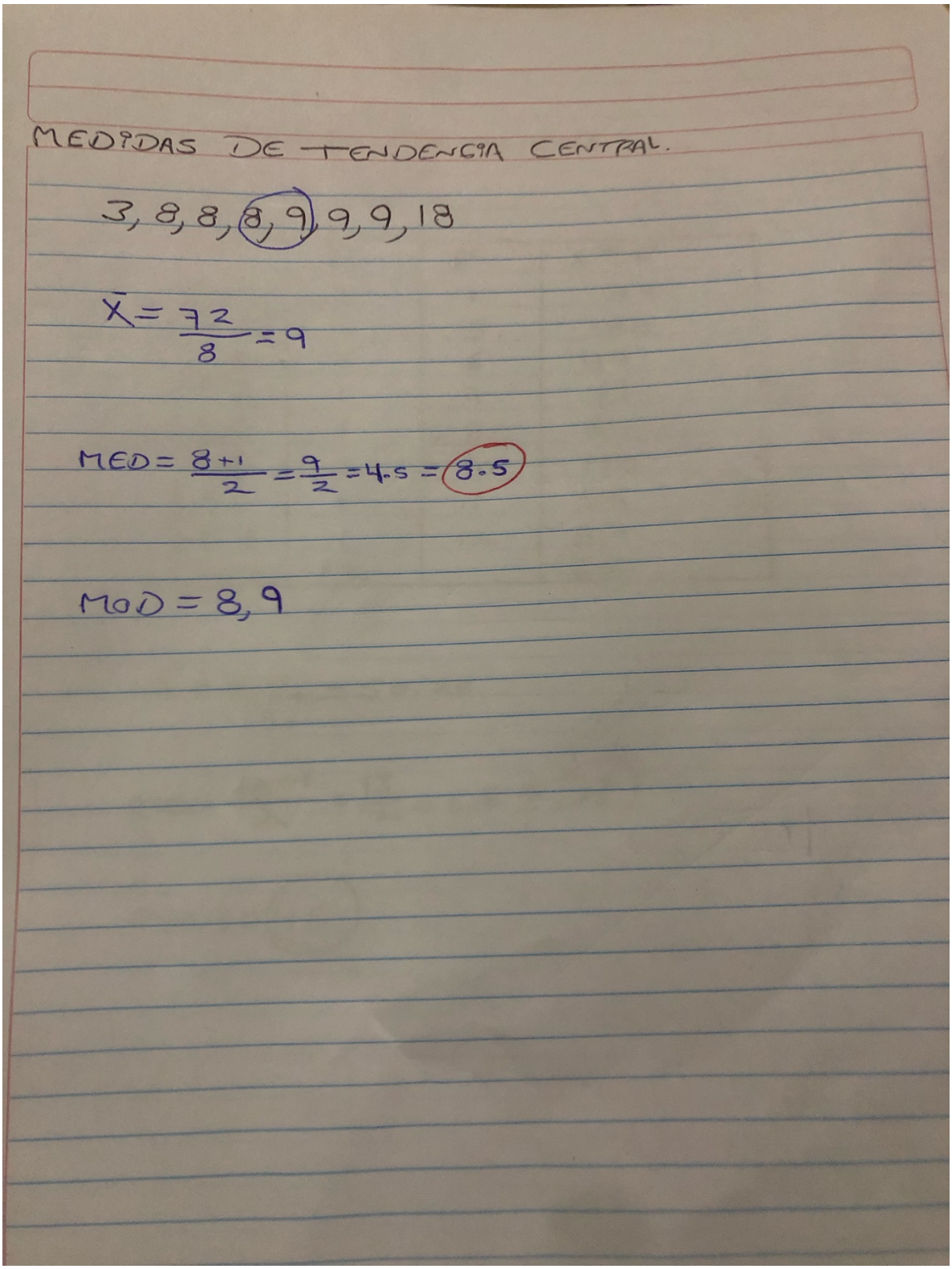
TEMA: actividad 2

PARCIAL: 2

MATERIA: bioestadística

NOMBRE DEL PROFESOR: magner Joel herrera

LICENCIATURA: enfermería 4


MEDIDAS DE TENDENCIA CENTRAL.
3, 8, 8, 8, 9, 9, 9, 18
$\bar{X} = \frac{72}{8} = 9$
$MED = \frac{8+1}{2} = \frac{9}{2} = 4.5 = 8.5$
MoD = 8, 9

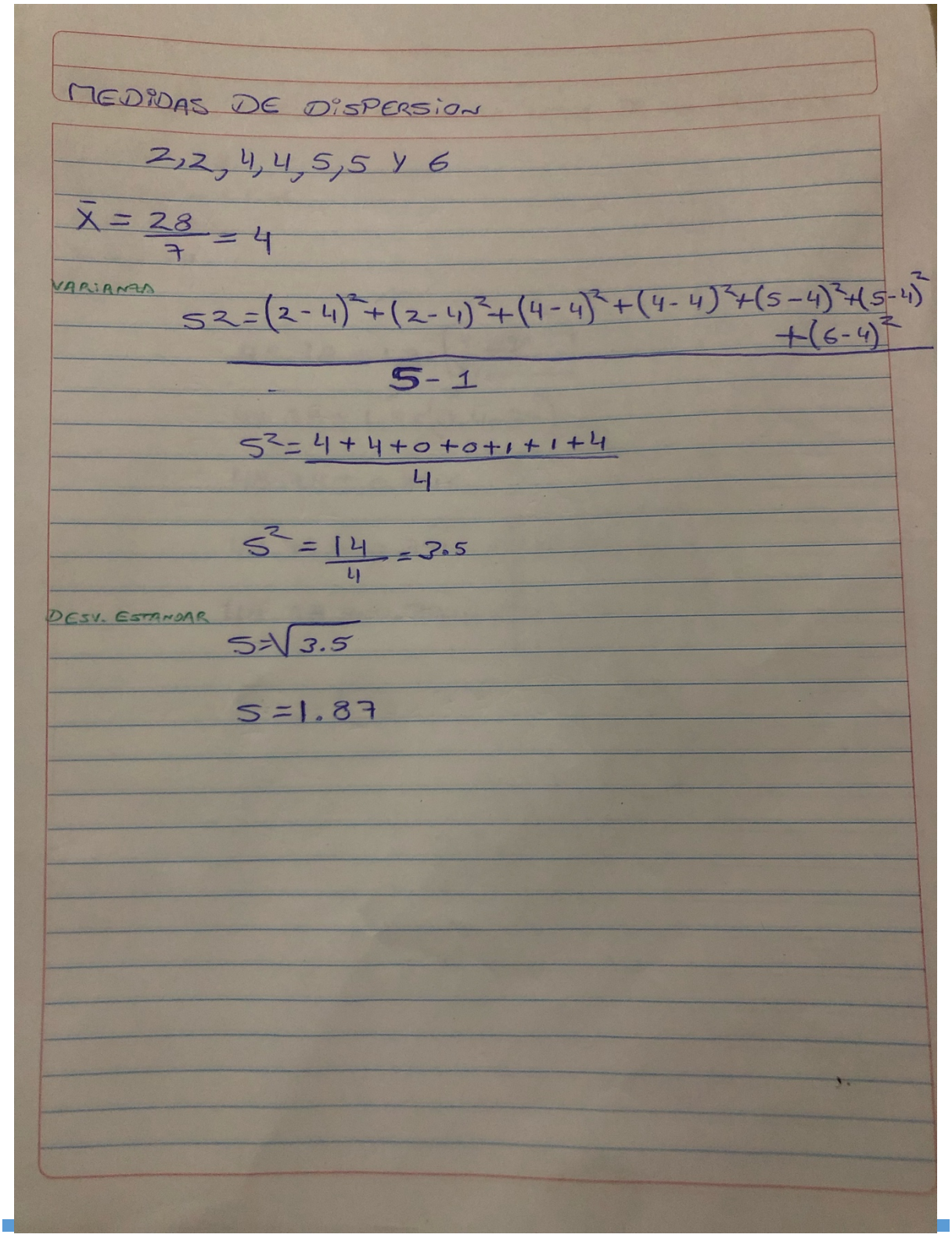
DATOS AGRUPADOS PUNTUALMENTE.

X	f	F	X * F
44	1	1	44
45	4	5	180
49	1	6	49
53	1	7	53
54	1	8	54
55	2	10	110
56	1	11	56
57	1	12	57
TOTAL	12		603

$\bar{X} = \frac{603}{12} = 50.25$

$MED = \frac{12+1}{2} = \frac{13}{2} = 6.5 = 53$

MOD = 45



MEDIDAS DE DISPERSION

2, 2, 4, 4, 5, 5 Y 6

$\bar{X} = \frac{28}{7} = 4$

VARIANZA

$$S2 = \frac{(2-4)^2 + (2-4)^2 + (4-4)^2 + (4-4)^2 + (5-4)^2 + (5-4)^2 + (6-4)^2}{5-1}$$

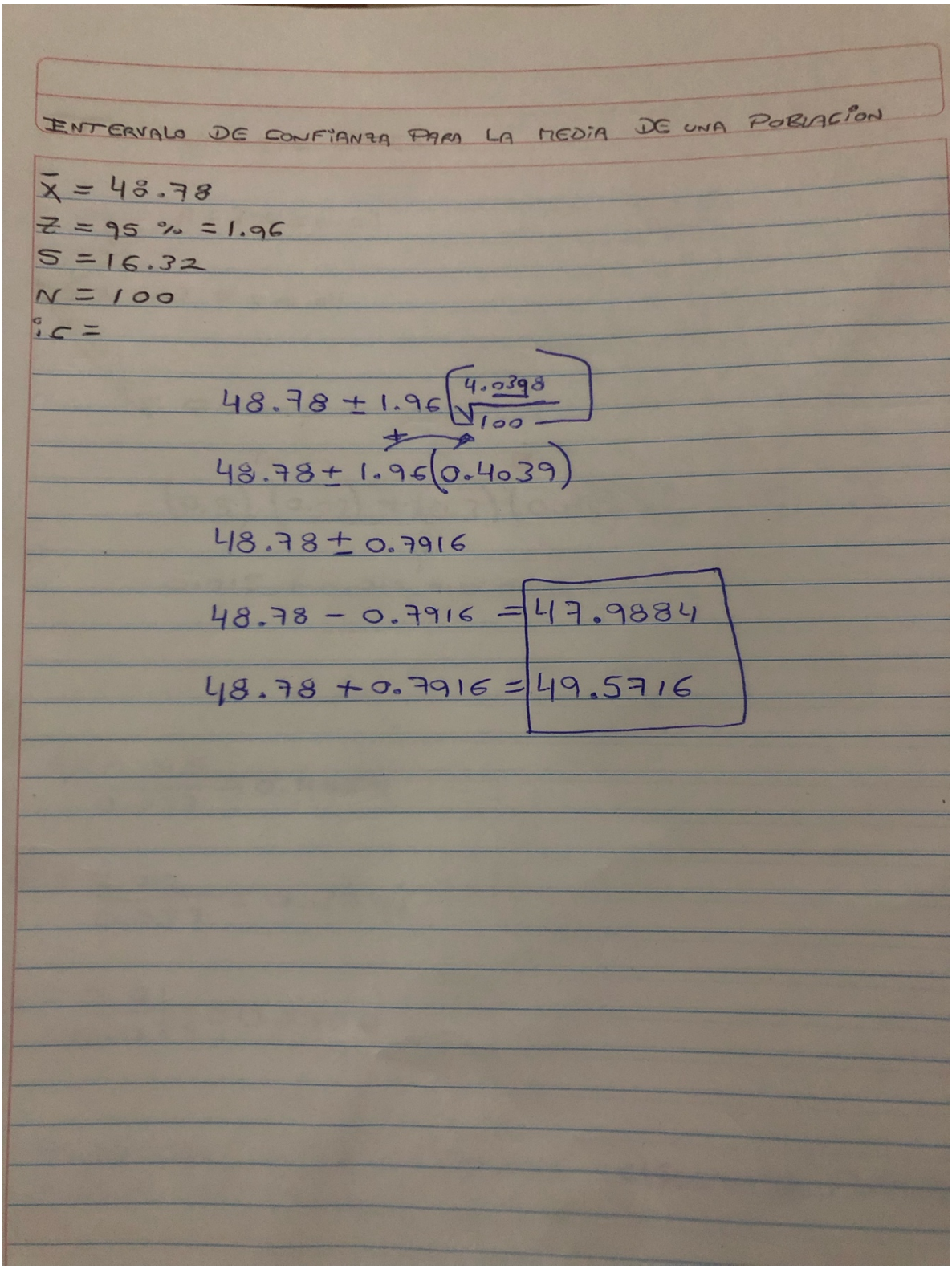
$$S^2 = \frac{4+4+0+0+1+1+4}{4}$$

$$S^2 = \frac{14}{4} = 3.5$$

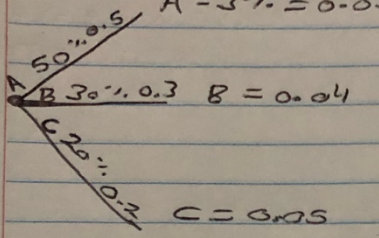
DESV. ESTANDAR

$$S = \sqrt{3.5}$$

$$S = 1.87$$


INTERVALO DE CONFIANZA PARA LA MEDIA DE UNA POBLACION
$\bar{X} = 48.78$
$Z = 95\% = 1.96$
$S = 16.32$
$N = 100$
$IC =$
$48.78 \pm 1.96\left(\frac{4.0398}{\sqrt{100}}\right)$
$48.78 \pm 1.96(0.4039)$
48.78 ± 0.7916
$48.78 - 0.7916 = 47.9884$
$48.78 + 0.7916 = 49.5716$

TEOREMA DE BAYES



$$\underset{A}{(0.5)}\underset{}{(0.03)} + \underset{B}{(0.3)}\underset{}{(0.04)} + \underset{C}{(0.2)}\underset{}{(0.05)}$$

$$0.015 + 0.012 + 0.01 = 0.037$$

B)

$$A = \frac{0.015}{0.037} = 0.4054$$

$$B = \frac{0.012}{0.037} = 0.3243$$

$$C = \frac{0.01}{0.037} = 0.2702$$

A) PROBABILIDAD DE QUE UNA PERSONA SELECCIONADA POSEA CANCER DE MAMA.

R = COMUNIDAD "A"