

UNIDAD III

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① 2, 3, 4, 5, 5, 6, 7, 8, 9, 10, 10, 11, 11, 12, 13.

a) $D_3 = \frac{3 \cdot 15}{10} = 4.5 = 5$ 30% = 2-5

b) $Q_3 = \frac{3 \cdot 15}{4} = 11.25 = 11$ 75% = 2-10

c) $P_{43} = \frac{43 \cdot 15}{100} = 6.45 = 6$ 43% = 2-6

② 40, 47, 50, 51, 55, 55, 58, 64, 66, 66, 69, 69, 70, 73, 73, 74, 75, 77, 79, 80

d) Cuantil = $\frac{k \cdot n}{c}$ $8 = \frac{x \cdot 20}{100}$ $\frac{8 \cdot 100}{20} = x$ x = 40%

e) $P_{75} = \frac{75 \cdot 20}{100} = 15$ 75% = 40-73

f) $P_{28} = \frac{28 \cdot 20}{100} = 5.6 = 6$ 28% = 40-55

③ g) $40\% = D_4 = \frac{4 \cdot 60}{10} = 24$ 40% = 0-21

$C = L_i + \frac{(H - F_i^{-1}) \cdot a}{f_i}$ $C = 20 + \left(\frac{24 - 22}{15} \right) \cdot 10$ $C = 21.33$

h) $81\% = P_{81} = \frac{81 \cdot 60}{100} = 48.6 = 49$ 81% = 0-39

$C = 30 + \left(\frac{49 - 37}{14} \right) \cdot 10$ $C = 38.57$