1) $PG = \frac{3568 \cdot 15}{360 \cdot 50 + 35 \cdot 120 + 698 \cdot 3} = \frac{53520}{24294} = 2'2$

2) $PG = \frac{3500 \cdot 15}{500 \cdot 50 + 40 \cdot 120 + 200 \cdot 3} = \frac{52500}{30.400} = 1'73$

$TV = \frac{1'73 - 2'2}{2} \cdot 100 = -21'36\%$

3) $PG_0 = \frac{345 \cdot 13 + 879 \cdot 87}{35 \cdot 6 + 26 \cdot 9 + 98 \cdot 4} = \frac{80958}{836} = 96'84$

$PG_1 = \frac{345 \cdot 1'56 \, 13 + 879 \cdot 1'56 \cdot 87}{35 \cdot 0'88 \cdot 6 + 26 \cdot 1'48 \cdot 9 + 98 \cdot 4} = \frac{126294'48}{852'92} = 148'07$

$TV = \frac{148'07 - 96'84}{96'84} \cdot 100 = 52'9\%$

4) $PG = \frac{523 \cdot 3}{175 \cdot 2 + 12 \cdot 58} = 1'5$

$P_{110} = \frac{523}{12} = 43'58$

$Tasa = \frac{1'5}{1'35} = 1'11$