

Loan to Value (LTV)	
LTV of a 1 st mortgage	$\text{LTV} = \text{Mortgage Amount} / \text{Property Value}$
LTV of a 2 nd mortgage	$\text{LTV} = (\text{1st Mortgage Amount} + \text{2nd Mortgage Amount}) / \text{Property Value}$
LTV calculating the maximum loan amount	$\text{Maximum Mortgage Amount} = \text{LTV} \times \text{Property Value}$
Gross Debt Service Ratio (GDS)	
GDS: verifying that a payment meets the lender's GDS ratio	$\text{GDS} = ((\text{PITH} + \frac{1}{2} \text{ Condo Mtc. Fee}) / \text{Income}) \times 100$
Total Debt Service Ratio (TDS)	
TDS: verifying that a payment meets the lender's TDS ratio	$\text{TDS} = ((\text{PITH} + \frac{1}{2} \text{ Condo Mtc. Fee} + \text{Other Debts}) / \text{Income}) \times 100$
TDS: calculating a maximum mortgage payment	$\text{Maximum Mortgage Payment} = (\text{MAX TDS} \times \text{Income}) - \text{Taxes} - \text{Heat} - \frac{1}{2} \text{ Condo Mtc. Fee} - \text{Other Debts}$