

# EXEMPLO COMPLETO



Aluguel (R\$)	$f_i$ Nº de casas	$X_i$	$F_i$	$\frac{LI+LS}{2}$
0 - 200	30	100	30	1 a 30
200 - 400	52	300	82	31 a 82 ← $M_d$
400 - 600	28	500	110	83 - 110
600 - 800	7	700	117	111 - 117
800 - 1.000	3	900	120	118 - 120
total	$n = 120$			

**MODA:**  $D_1 = f_{Mo} - f_{ant}$   
 $D_1 = 52 - 30 = 22$

$D_2 = f_{Mo} - f_{post}$

$D_2 = 52 - 28 = 24$

$M_o = L_{Mo} + \left( \frac{D_1}{D_1 + D_2} \right) \cdot h$

$M_o = 200 + \frac{22}{22 + 24} \cdot 200 = 200 + 95,7 = 295,7 \text{ reais}$

**Média:**  $\bar{X} = \frac{\sum f_i \cdot X_i}{n}$

$\bar{X} = \frac{30 \cdot 100 + 52 \cdot 300 + 28 \cdot 500 + 7 \cdot 700 + 3 \cdot 900}{120} =$

$= \frac{40200}{120} = 335 \text{ reais}$

**Mediana:**  $M_d = L_{Md} + \left( \frac{\frac{n}{2} - F_{ant}}{f_{Md}} \right) \cdot h$

**Posição:**  $\frac{120}{2} = 60$

$M_d = 200 + \left( \frac{\frac{120}{2} - 30}{52} \right) \cdot 200 = 200 + 115,4 = 315,4 \text{ reais}$