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Aluno A	3,5	3,0	2,0	6,0	6,5	3,0	7,0	2,0
Aluno B	5,0	5,5	4,5	6,0	5,5	5,0	4,5	4,0

$$A = (3,5 + 3 + 2 + 6 + 6,5 + 3 + 7 + 2) / 8 = 5,625$$

$$B = (5,0 + 5,5 + 4,5 + 6 + 5,5 + 5 + 4,5 + 4) / 8 = 5$$

$$\text{Aluno A} = 5,625$$

$$\text{Aluno B} = 5$$

Desvio médio  $\sum |x_i - \bar{x}|$

Aluno A

$$|3,5 - 5,625| = 3,875$$

$$|3 - 5,625| = 3,375$$

$$|2 - 5,625| = 3,625$$

$$|6 - 5,625| = 0,375$$

$$|6,5 - 5,625| = 0,875$$

$$|3 - 5,625| = 2,625$$

$$|7 - 5,625| = 1,375$$

$$|2 - 5,625| = 3,625$$

Aluno B

$$|5 - 5| = 0$$

$$|5,5 - 5| = 0,5$$

$$|4,5 - 5| = 0,5$$

$$|6 - 5| = 1$$

$$|5,5 - 5| = 0,5$$

$$|5 - 5| = 0$$

$$|4,5 - 5| = 0,5$$

$$|4 - 5| = 1$$

$$18,75 / 8 = 2,469$$

Re: Desvio médio do Aluno A é maior do que o Aluno B, então, o aluno B tem o resultado mais homogêneo.

$$4 / 8 = 0,5$$



9) 0 0 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7  
 8 8 8 8 8 8 9 9 9 9 10 10 11 11 12 15 15 20 20 25 25

$$G_{\text{moda}} = 8$$

$$(1 \cdot 4) + (2 \cdot 4) + (3 \cdot 4) + (4 \cdot 4) + (5 \cdot 4) + (6 \cdot 4) + (7 \cdot 4) + (8 \cdot 5) + (9 \cdot 4) + (10 \cdot 2) + (11 \cdot 2) + 12 + (15 \cdot 2) + (20 \cdot 2) + (25 \cdot 2) / 50$$

$$G_{\text{média}} = 7,24 = \bar{x}$$

$$G_{\text{amplitude}} = 25$$

$$7,24^2 = 52,372 \times 2 = 104,74$$

$$6,24^2 = 38,9376 \times 4 = 155,75$$

$$5,24^2 = 27,4576 \times 4 = 109,83$$

$$4,24^2 = 17,9776 \times 4 = 71,91$$

$$3,24^2 = 10,4976 \times 4 = 41,99$$

$$2,24^2 = 5,0176 \times 4 = 20,07$$

$$1,24^2 = 1,5376 \times 4 = 6,15$$

$$0,24^2 = 0,0576 \times 4 = 0,23$$

$$0,76^2 = 0,5776 \times 5 = 2,89$$

$$1,76^2 = 3,0976 \times 4 = 12,39$$

$$2,76^2 = 7,6176 \times 2 = 15,24$$

$$3,76^2 = 14,1376 \times 2 = 28,28$$

$$4,76^2 = 22,66$$

$$5,76^2 = 33,1776 \times 2 = 66,36$$

$$6,76^2 = 45,6876 \times 2 = 91,38$$

$$7,76^2 = 60,1776 \times 2 = 120,36$$

$$|0 - 7,24| = 7,24$$

$$|1 - 7,24| = 6,24$$

$$|2 - 7,24| = 5,24$$

$$|3 - 7,24| = 4,24$$

$$|4 - 7,24| = 3,24$$

$$|5 - 7,24| = 2,24$$

$$|6 - 7,24| = 1,24$$

$$|7 - 7,24| = 0,24$$

$$|8 - 7,24| = 0,76$$

$$|9 - 7,24| = 1,76$$

$$|10 - 7,24| = 2,76$$

$$|11 - 7,24| = 3,76$$

$$|12 - 7,24| = 4,76$$

$$|15 - 7,24| = 7,76$$

$$|20 - 7,24| = 12,76$$

$$|25 - 7,24| = 17,76$$

$$\text{Variancia} = 17,408 \quad \text{moda} = 8 \quad \text{amplitude} = 25$$

$$V = 17,408$$

$$\bar{x} = 7,24$$

$$\text{Desvio padrão } S = \sqrt{V} = 4,172$$

$$\text{Coeficiente de variação } CV = \frac{4,172}{7,24} \cdot 100 = 57,62\%$$



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classes	$f_i$	$h_i$	$f_o$	$h_o$
150 - 160	7	9,91%	7	9,91%
160 - 170	23	38,15%	36	47,36%
170 - 180	24	31,58%	60	78,94%
180 - 190	14	18,42%	74	97,36%
190 - 200	2	2,63%	76	99,99%

5)  $13909 / 76 = 171,08$  - mediana =  $\frac{172 + 171}{2} = 171,5$   
 $\bar{x} = 171,08$

moda  $(160 + 170) / 2 = 165$

6) Ponto médio

155

165

175

185

185

Desvio médio:  $\sum_{i=1}^n |x_i - \bar{x}| = 7,368$

Variação:  $\sum_{i=1}^n |x_i - \bar{x}|^2 = 81,921$

$S = \sqrt{1} = 8,023$

Amplitude =  $180 - 150 = 42$

Coefficiente de variação =  $\frac{S}{\bar{x}} \cdot 100$   
 $CV = 5,27\%$