

EXERCÍCIO 24



Obtenha a mediana nos casos a seguir:

a) 12, 15, 10, 13, 11, 19 $n=6$ PAR

ROL: 10, 11, 12, 13, 15, 19

$$Md = \frac{12 + 13}{2} = \boxed{12,5}$$

b) 7, 7, 5, 4, 3, 5, 5, 2, 3 $n=9$ IMPAR

ROL: 2, 3, 3, 4, 5, 5, 5, 7, 7

$$Md = \boxed{5}$$

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c)

X_i idade	Frequencia	F_i
10	5	5
11	7	12
12	6	18
13	8	26
total	26	→ PAR

$$13 - 5 = 8$$

$$6 - 12 = 6$$

$$18 - 18 = 0$$

$$19 - 26 = 7$$

$$\frac{26}{2} = 13^{\text{a}} \text{ pos. e } 14^{\text{a}} \text{ pos.}$$

$$Md = \frac{12 + 12}{2} = \boxed{12}$$

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d)

X_i idade	Frequencia
12	7
13	9
14	6
15	11
total	33 → IMPAR

F_i
7 12 - 32
16 82 - 16 =
22 172 - 222
33 232 - 332

$$\frac{33}{2} = 16,5 \xrightarrow{+0,5} 17^{\text{a}} \text{ pos.}$$

↓

$$\boxed{Md = 14}$$

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e)

Salários (R\$)	Frequencia
500 -- 1000	17
1000 -- 1500	12
1500 -- 2000	11
2000 -- 2500	5
total	$n = 45$

F_i
17 15 - 175
29 18 - 295
40 30 - 405
45 41 - 455
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POSICÃO:

$$\frac{45}{2} = 22.5$$

↓ arred.
23ª pos.

$$M_d = L_{Md} + \frac{\frac{n}{2} - F_{ant}}{f_{Md}} \cdot h$$

$$M_d = 1000 + \frac{\frac{45}{2} - 17}{12} \cdot 500 =$$

$$= 1000 + 229,17 = \boxed{1229,17}$$

$$h = L_5 - L_I$$
$$h = 1500 - 1000$$
$$h = 500$$