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Nombre: Jorge.

Materia: Estadística

Grado: "1"

Grupo: "A"

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40 56 45 56 50 50
 55 60 55 67 49 59
 60 63 54 50 55 58
 63 50 50 46 48 60
 47 50 65 44 40 64
 40 49 62 58 44 72
 55 50 78 65 50 70
 50 54 84 62 55 68

40 48 50 55 60 65
 40 49 50 55 60 65
 40 49 50 55 60 67
 44 49 50 56 62 68
 45 50 50 56 62 70
 45 50 54 58 63 72
 46 50 54 58 63 78
 47 50 55 59 64 84

$$347 + 395 + 413 + 452 + 494 + 569 = 2,670$$

$$15,111 + 19,507 + 21,357 + 25,556 + 30,522 + 40,787 = 152,840$$

$$\sum f_i = 2670$$

$$\sum f_i^2 = 152840$$

$$n = 48$$

$$\bar{x} = \frac{\sum f_i}{n}$$

$$\bar{x} = \frac{2670}{48} = 55.62$$

$$\frac{n}{2}, \frac{n}{2} + 1 \text{ par}$$

$$MC = \frac{48}{2}, \frac{48}{2} + 1$$

$$24, 25$$

$$\frac{55 + 55}{2} = \frac{110}{2} = 55$$

$$M_c = 55$$

$$M_o = 50$$

$$s^2 = \frac{\sum f_i^2 - \frac{(\sum f_i)^2}{n}}{n-1}$$

$$s^2 = \frac{152840 - \frac{2670^2}{48}}{47}$$

$$152,840 - \left(\frac{2670^2}{48} \right) = \div 47$$

$$s^2 = \sqrt{97.94}$$

$$s = 9.56$$

21 40 44 35 34 57 85 38
 35 81 35 44 44 55 87 45
 40 85 60 78 35 78 35 56
 78 44 66 76 55 54 88 67
 35 35 76 89 80 86 44 77
 44 40 82 35 66 94 35 78
 56 85 35 70 77 90 80 35

27 35 34 44 55 67 78 86
 35 35 38 44 56 70 78 87
 35 35 40 44 56 76 78 87
 35 35 40 44 57 76 80 88
 35 35 40 44 57 77 80 89
 35 35 40 45 60 77 82 90
 35 35 44 54 66 77 82 90
 35 35 44 55 66 78 85 94

$$237 + 245 + 280 + 330 + 416 + 521 + 567 + 627 = 3211$$

$$8079 + 8575 + 11272 + 15770 + 24858 + 38883 + 45007 + 55135 = 207513$$

$$\frac{55 + 55}{2} = \frac{110}{2} = 55$$

$$\sum f_i = 3211$$

$$\sum f_i^2 = 207513$$

$$n = 56$$

$$\bar{x} = \frac{\sum f_i}{n}$$

$$\bar{x} = \frac{3211}{56} = 57.33$$

$$M_C = 55$$

$$M_0 = 35$$

$$s^2 = \frac{\sum f_i^2 - (\sum f_i)^2}{n}$$

$$s^2 = \frac{207513 - \frac{(3211)^2}{56}}{55}$$

$$\frac{n}{2} \quad \frac{n}{2} + 1 \text{ par}$$

$$M_C = \frac{56}{2} \left(\frac{56}{2} + 1 \right)$$

$$28 \quad 29$$

$$207513 = (3211^2 \div 56) = \div 55$$

$$s^2 = 425 - 29$$

$$s = 20.62$$