

# Datos agrupados

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Estadística

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# 1º Ejercicio 1º

Media, Mediana, Moda, varianza y desviacion estandar

<del>40</del>	56	45	<del>58</del>	<del>50</del>	<del>50</del>
<del>55</del>	60	<del>55</del>	67	<del>59</del>	59
60	63	<del>57</del>	<del>50</del>	<del>58</del>	<del>58</del>
63	<del>50</del>	<del>50</del>	<del>48</del>	48	60
<del>57</del>	50	65	48	<del>40</del>	64
<del>40</del>	<del>49</del>	62	58	<del>44</del>	72
55	<del>50</del>	78	65	<del>50</del>	70
<del>50</del>	<del>54</del>	84	62	<del>45</del>	68

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

$$n = 48$$

$$Efi = 2,658$$

$$Efi^2 = 151,496$$

$$\bar{X} = \frac{Efi}{n}$$

$$\bar{X} = \frac{2,658}{48}$$

$$\bar{X} = \underline{\underline{55.37}}$$

$$Me = \frac{n}{2}, \frac{n}{2} + 1$$

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

$$Me = 24, 25$$

$$Me = \frac{54 + 55}{2}$$

$$Me = \underline{\underline{54.5}}$$

$$S^2 = \frac{Efi^2}{n-1} - \frac{(Efi)^2}{n}$$

$$S^2 = \frac{151,496}{48-1} - \frac{(2,658)^2}{48}$$

$$S^2 = 151,496 - (2,658^2 \div 48) = 4,309.25 \div 47 = \underline{\underline{91.68}}$$

$$S = \sqrt{91.68}$$

$$S = \underline{\underline{9.57}}$$

Modal: 50

## 2º Ejercicio 2º

27	34	35	35	35	35	35	35
35	35	35	35	35	35	35	38
40	40	40	44	44	44	44	44
44	45	54	55	55	56	56	57
60	66	66	67	70	76	76	77
77	78	78	78	78	80	80	82
86	86	87	87	88	89	90	94
368	384	395	401	405	415	416	427

27	34	35	35	35	35	35	35
35	35	35	35	35	35	35	38
40	40	40	44	44	44	44	44
44	45	54	55	55	56	56	57
60	66	66	67	70	76	76	77
77	78	78	78	78	80	80	82
86	86	87	87	88	89	90	94
368	384	395	401	405	415	416	427

$$n = 56$$

$$efi = 3,211$$

$$efi^2 = 207,513$$

$$\bar{x} = \frac{efi}{n} \quad \bar{x} = \frac{3211}{56} \quad \bar{x} = \underline{\underline{57.3}}$$

$$Me = \frac{n}{2}, \frac{n}{2} + 1 \quad Me = \frac{56}{2}, \frac{56}{2} + 1 \quad Me = 28, 29 \quad Me = \frac{55 + 55}{2}$$

$$Me = \underline{\underline{55}}$$

$$S^2 = \frac{efi^2}{n-1} - \frac{(efi)^2}{n}$$

$$S^2 = \frac{207,513}{56-1} - \frac{(3211)^2}{56}$$

$$S^2 = 207,513 - \left( \frac{3211^2}{56} \right) = 23,396.55 \div 55 = \underline{\underline{425.39}}$$

$$S = \sqrt{425.39}$$

$$S = \underline{\underline{20}}$$

$$Moda = \underline{\underline{35}}$$