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EJERCICIOS DE ESTADÍSTICA DESCRIPTIVA.

Profesor : Germán Rojas C.

Ejercicio 1:

Imagina que hemos preguntado a un conjunto de N personas qué opinión tienen acerca de la seguridad en el transporte escolar. Las n respuestas se encuentran en una escala que va de 1 a 9, donde 1 representa un total inseguridad, mientras que 9 quiere significar una total seguridad. El resultado de la medición es el siguiente:

[illegible]

Se pide:

1. ¿Cuántas personas fueron encuestadas?
2. ¿Cuál fue la respuesta más frecuente?
3. ¿Cuántas personas tienen, como máximo, una actitud de cuatro puntos en la escala (es decir, cuántas personas se encuentran que hay un alto grado de inseguridad en el transporte)?
4. ¿Existe la misma percepción entre Hombres y mujeres?

Ejercicio2:

En un centro hospitalario de la Región Metropolitana se ha tratado, con un nuevo medicamento llamado SINDOLORCABEZA, durante 5 días a un grupo de pacientes, todos ellos padecen de jaqueca crónica (se despiertan todos los días con dolor de cabeza). Se realizó un estudio sobre el número de días que un paciente sufre mejoría con el anterior medicamento obteniendo la tabla:

Valores x_i	Frecuencias n_i
0	100
1	250
2	300
3	500
4	450
5	2000

Se pide:

Profesor. Germán Rojas Cabezas

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Ejercicios Resueltos del Tema 2

Ejercicio 1

Se ha pasado un test de 30 preguntas a 600 personas. El número de respuestas correctas se refleja en la siguiente tabla:

RESPUESTAS CORRECTAS	NUMERO DE PERSONAS
[0, 10)	40
[10, 20)	60
[20, 30)	75
[30, 40)	90
[40, 50)	105
[50, 60)	85
[60, 70)	80
[70, 80)	65

- Calcular la media, desviación media y desviación típica.
- Calcular la mediana, los cuartiles y los percentiles 20 y 85.
- ¿Cuál es el percentil de una persona que tiene 65 respuestas correctas?

Solution:

Hacemos las tablas de frecuencias:

INTERVALO	x_0	x_1	N_i	$x_0 x_1$	$x_0^2 x_1$	$x_1^2 x_0$
[0, 10]	5	40	40	200	1000	1506,67
[10, 20]	15	60	100	900	13500	1660,00
[20, 30]	25	75	175	1875	46875	1325,00
[30, 40]	35	90	265	3150	110250	690,00
[40, 50]	45	105	370	4725	212625	245,00
[50, 60]	55	85	455	4675	257125	1048,33
[60, 70]	65	80	535	5200	338000	1786,67
[70, 80]	75	65	600	4875	365625	2101,67
		600		25600	1345000	10363,33

$$a) \lambda_x = 4 \frac{25600}{600} = 67$$

$$DM \frac{10363,33}{600} 17,2$$

b)

Para la mediana $600/2 = 300$, luego voy al intervalo $[40, 50)$

4	0		
		300	265
		<u>570</u>	<u>265</u>

10 40 3,3 3 43,3 3

Para Q_1 $600/4 = 150$, luego voy al intervalo $[20, 30)$

la relativa de 1 es $0.09 = 10\%$ de donde $Q_1 = 50 - \frac{10}{100} \cdot 100 = 40$ permite completar la tabla

[illegible]

EXERCÍCIOS RESOLVIDOS – TEMA 1

Exercício 1. O gráfico a seguir representa a distribuição da população residente no Brasil em 2000, segundo o grau de escolaridade. Com base no gráfico, responda:

a) Qual a população residente no Brasil em 2000, segundo o grau de escolaridade?

b) Qual a população residente no Brasil em 2000, segundo o grau de escolaridade, considerando apenas a população residente no Brasil em 2000, segundo o grau de escolaridade?

Solução:

a) A população residente no Brasil em 2000, segundo o grau de escolaridade, é a soma das populações residente no Brasil em 2000, segundo o grau de escolaridade, considerando apenas a população residente no Brasil em 2000, segundo o grau de escolaridade.

b) A população residente no Brasil em 2000, segundo o grau de escolaridade, considerando apenas a população residente no Brasil em 2000, segundo o grau de escolaridade, é a soma das populações residente no Brasil em 2000, segundo o grau de escolaridade, considerando apenas a população residente no Brasil em 2000, segundo o grau de escolaridade.

Exercício 2. O gráfico a seguir representa a distribuição da população residente no Brasil em 2000, segundo o grau de escolaridade. Com base no gráfico, responda:

a) Qual a população residente no Brasil em 2000, segundo o grau de escolaridade?

b) Qual a população residente no Brasil em 2000, segundo o grau de escolaridade, considerando apenas a população residente no Brasil em 2000, segundo o grau de escolaridade?

Solução:

a) A população residente no Brasil em 2000, segundo o grau de escolaridade, é a soma das populações residente no Brasil em 2000, segundo o grau de escolaridade, considerando apenas a população residente no Brasil em 2000, segundo o grau de escolaridade.

b) A população residente no Brasil em 2000, segundo o grau de escolaridade, considerando apenas a população residente no Brasil em 2000, segundo o grau de escolaridade, é a soma das populações residente no Brasil em 2000, segundo o grau de escolaridade, considerando apenas a população residente no Brasil em 2000, segundo o grau de escolaridade.

EJERCICIO DE PROCESO COMPLETO

Datos Agrupados:				Solución:
Calificaciones X	Nº de Alumnos f	Xm	Limites reales	
50 - 54	2	52	49.5 - 54.5	$Xm = (Li+Ls) / 2$
55 - 59	3	57	54.5 - 59.5	$Xm = (50 + 54) / 2$
60 - 64	8	62	59.5 - 64.5	$Xm = 52$
65 - 69	6	67	64.5 - 69.5	
70 - 74	5	72	69.5 - 74.5	$Xm = (55 + 59) / 2 = 57$
75 - 79	11	77	74.5 - 79.5	
80 - 84	8	82	79.5 - 84.5	Limites Reales de Clas
85 - 89	5	87	84.5 - 89.5	En la primera clase:
90 - 94	4	92	89.5 - 94.5	$Lri = (49 + 50) / 2 = 49.5$
95 - 99	3	97	94.5 - 99.5	
Total	50			$Lrs = (54 + 55) / 2 = 54.5$

Estadística descriptiva ejercicios para resolver. Estadística descriptiva ejercicios resueltos datos agrupados. Estadística descriptiva ejercicios resueltos. Estadística descriptiva ejercicios resueltos excel. Libro de estadística descriptiva ejercicios resueltos pdf. Probabilidad estadística descriptiva ejercicios resueltos. Estadística descriptiva ejercicios pdf. Vitorutor estadística descriptiva ejercicios resueltos.

From the zero value at the left end of the first class, the accumulated Polyan is assumingly equal to accumulated frequency at the successive ends of the classes. These are containing data, since individuals of a population may have as a height of any real half in a certain interval. Definition 2. b) Represents rudely the information obtained in section a) through a histogram. Individual, population, shows. 30 [30, 40] [40, 50] [50, 60] [60, 70] [70, 80] 5 15 25 35 45 55 65 75 85 95 100 175 265 370 455 535 600 1/5 1/10 1/8 3/20 7/40 1/120 2/15 13/120 1/5 1/6 7/24 53/120 37/60 91/120 107/120 1 600 1 Example 13. Because it is not possible, it is no natural, it is evident that these are discrete quantitative quantitative data. From the delivery of a set of rats, the numbers of crap was observed, obtaining the following values in Number: 5, 3, 1, 5, 6, 4, 2, 5, 6, 3, 6, 5, ..., 2, 2, 6, 7 and 3. When working with grouped data, the XI is taken equal to class mark. The number of correct answers is reflected in the following table: Mi F intervals. POLYGON OF FREQUENCY. Bar Diagram: Example 15. Cumulative Graphics: Example 16. GRANFIC OF BARGULATIVE BAR TREATMENT BY CLASSES - When variables are containing or discreet, grouped, the most commonly used GREATIES SA E o: The polygons of frequency and frequency of the histogram (absolute or relative) histograms of frequency. Let's make a diagram of absolute frequency by classes, for example. Individual treatment by the most used means of representation is the grain (or diagram) of bar, frequency polygon and cumulative graphics we will distinguish between discreet or countable variable. Example 6. The following table shows the number of deaths in Spain during the 1994-1995 AIDS. The statistic parantesical parafare for the practice, many statistics parans are able to facilitate the calculations. And the results are not too far from the reality. Build a frequency table. Example 6. The following table shows the 12200 registered deaths with their sex distribution: 21 of 14 years, 39 of 15, 51 of 16, 39 of 17, 51 of 18, 39 of 19, 51 of 20, 39 of 21, 51 of 22, 39 of 23, 51 of 24, 39 of 25, 51 of 26, 39 of 27, 51 of 28, 39 of 29, 51 of 30, 39 of 31, 51 of 32, 39 of 33, 51 of 34, 39 of 35, 51 of 36, 39 of 37, 51 of 38, 39 of 39, 51 of 40, 39 of 41, 51 of 42, 39 of 43, 51 of 44, 39 of 45, 51 of 46, 39 of 47, 51 of 48, 39 of 49, 51 of 50, 39 of 51, 51 of 52, 39 of 53, 51 of 54, 39 of 55, 51 of 56, 39 of 57, 51 of 58, 39 of 59, 51 of 60, 39 of 61, 51 of 62, 39 of 63, 51 of 64, 39 of 65, 51 of 66, 39 of 67, 51 of 68, 39 of 69, 51 of 70, 39 of 71, 51 of 72, 39 of 73, 51 of 74, 39 of 75, 51 of 76, 39 of 77, 51 of 78, 39 of 79, 51 of 80, 39 of 81, 51 of 82, 39 of 83, 51 of 84, 39 of 85, 51 of 86, 39 of 87, 51 of 88, 39 of 89, 51 of 90, 39 of 91, 51 of 92, 39 of 93, 51 of 94, 39 of 95, 51 of 96, 39 of 97, 51 of 98, 39 of 99, 51 of 100, 39 of 101, 51 of 102, 39 of 103, 51 of 104, 39 of 105, 51 of 106, 39 of 107, 51 of 108, 39 of 109, 51 of 110, 39 of 111, 51 of 112, 39 of 113, 51 of 114, 39 of 115, 51 of 116, 39 of 117, 51 of 118, 39 of 119, 51 of 120, 39 of 121, 51 of 122, 39 of 123, 51 of 124, 39 of 125, 51 of 126, 39 of 127, 51 of 128, 39 of 129, 51 of 130, 39 of 131, 51 of 132, 39 of 133, 51 of 134, 39 of 135, 51 of 136, 39 of 137, 51 of 138, 39 of 139, 51 of 140, 39 of 141, 51 of 142, 39 of 143, 51 of 144, 39 of 145, 51 of 146, 39 of 147, 51 of 148, 39 of 149, 51 of 150, 39 of 151, 51 of 152, 39 of 153, 51 of 154, 39 of 155, 51 of 156, 39 of 157, 51 of 158, 39 of 159, 51 of 160, 39 of 161, 51 of 162, 39 of 163, 51 of 164, 39 of 165, 51 of 166, 39 of 167, 51 of 168, 39 of 169, 51 of 170, 39 of 171, 51 of 172, 39 of 173, 51 of 174, 39 of 175, 51 of 176, 39 of 177, 51 of 178, 39 of 179, 51 of 180, 39 of 181, 51 of 182, 39 of 183, 51 of 184, 39 of 185, 51 of 186, 39 of 187, 51 of 188, 39 of 189, 51 of 190, 39 of 191, 51 of 192, 39 of 193, 51 of 194, 39 of 195, 51 of 196, 39 of 197, 51 of 198, 39 of 199, 51 of 200, 39 of 201, 51 of 202, 39 of 203, 51 of 204, 39 of 205, 51 of 206, 39 of 207, 51 of 208, 39 of 209, 51 of 210, 39 of 211, 51 of 212, 39 of 213, 51 of 214, 39 of 215, 51 of 216, 39 of 217, 51 of 218, 39 of 219, 51 of 220, 39 of 221, 51 of 222, 39 of 223, 51 of 224, 39 of 225, 51 of 226, 39 of 227, 51 of 228, 39 of 229, 51 of 230, 39 of 231, 51 of 232, 39 of 233, 51 of 234, 39 of 235, 51 of 236, 39 of 237, 51 of 238, 39 of 239, 51 of 240, 39 of 241, 51 of 242, 39 of 243, 51 of 244, 39 of 245, 51 of 246, 39 of 247, 51 of 248, 39 of 249, 51 of 250, 39 of 251, 51 of 252, 39 of 253, 51 of 254, 39 of 255, 51 of 256, 39 of 257, 51 of 258, 39 of 259, 51 of 260, 39 of 261, 51 of 262, 39 of 263, 51 of 264, 39 of 265, 51 of 266, 39 of 267, 51 of 268, 39 of 269, 51 of 270, 39 of 271, 51 of 272, 39 of 273, 51 of 274, 39 of 275, 51 of 276, 39 of 277, 51 of 278, 39 of 279, 51 of 280, 39 of 281, 51 of 282, 39 of 283, 51 of 284, 39 of 285, 51 of 286, 39 of 287, 51 of 288, 39 of 289, 51 of 290, 39 of 291, 51 of 292, 39 of 293, 51 of 294, 39 of 295, 51 of 296, 39 of 297, 51 of 298, 39 of 299, 51 of 300, 39 of 301, 51 of 302, 39 of 303, 51 of 304, 39 of 305, 51 of 306, 39 of 307, 51 of 308, 39 of 309, 51 of 310, 39 of 311, 51 of 312, 39 of 313, 51 of 314, 39 of 315, 51 of 316, 39 of 317, 51 of 318, 39 of 319, 51 of 320, 39 of 321, 51 of 322, 39 of 323, 51 of 324, 39 of 325, 51 of 326, 39 of 327, 51 of 328, 39 of 329, 51 of 330, 39 of 331, 51 of 332, 39 of 333, 51 of 334, 39 of 335, 51 of 336, 39 of 337, 51 of 338, 39 of 339, 51 of 340, 39 of 341, 51 of 342, 39 of 343, 51 of 344, 39 of 345, 51 of 346, 39 of 347, 51 of 348, 39 of 349, 51 of 350, 39 of 351, 51 of 352, 39 of 353, 51 of 354, 39 of 355, 51 of 356, 39 of 357, 51 of 358, 39 of 359, 51 of 360, 39 of 361, 51 of 362, 39 of 363, 51 of 364, 39 of 365, 51 of 366, 39 of 367, 51 of 368, 39 of 369, 51 of 370, 39 of 371, 51 of 372, 39 of 373, 51 of 374, 39 of 375, 51 of 376, 39 of 377, 51 of 378, 39 of 379, 51 of 380, 39 of 381, 51 of 382, 39 of 383, 51 of 384, 39 of 385, 51 of 386, 39 of 387, 51 of 388, 39 of 389, 51 of 390, 39 of 391, 51 of 392, 39 of 393, 51 of 394, 39 of 395, 51 of 396, 39 of 397, 51 of 398, 39 of 399, 51 of 400, 39 of 401, 51 of 402, 39 of 403, 51 of 404, 39 of 405, 51 of 406, 39 of 407, 51 of 408, 39 of 4

∴ Definition 5. Notes that the concept of individual is not necessarily associated with that of a person, but it may be something abstract in nature. Data representation: Tables. A test of 79 questions was approved for 600 people. For variants à € hythnights (ie quantitative data) can define: Definition 3. Example 4. Example 17. Exercise 2. The causes of death of 16 individuals of a given population E o are observed, grouping them in the following four: Cardiovascular Diseases (EC), Camancer (C), Accidents (A) and other causes (O), having obtained the following data: EC, EC, A, C, O, A, EC, A, O, C, EC, C, C, O, C and EC. In this pion, resolved exercises of descriptive statistics have been selected if you need a descriptive statistical visit, basic concepts. The most used are revenue diagrams (or bars) and sectors. *In turn, the quantitative data is called containment if the results can assume any real value within a certain interval or discreet, if they can obtain certain spectacle values. Express relative in percentages. Example 10. Uniting the obtained points is the cumulative frequency polony (Figure 4). By definition, it is calculated by means The variance if x is a standard variance variance standardized is: it is said that the variable has been typified. Life expectancy at birth has evolved since 1900, as reflected in the following table: Year 1900 1910 1920 1940 1950 1960 1960 1980 Men 33.9 40.9 40.3 48.3 47.1 59.8 8.8 67.4 69.6 72.6 45.7 42.6 42.1 6.6 52.2 5.2 2.2 69.6 72. Draw the overlapping polyvons to compare them. Chronological health is called chronological ries for statistical tables that collect observations over time, usually at equal intervals. Fashion coverage8 to calculate fashion, for grouped data, the fanmula can be used [2] (c © the amplitude of the modal class) and I already "â" "" "" "" "" "" "" "" à € œ Ådy Å € œ à € ours always a median and is precisely the central value in the ordained relationship, from least to the largest. The statistical variation of example 5 is containing and discreet of example 6. They are often considered as population and sample, not the indivision sets, but the measurements of the characteristic associated with these individuals. Example 12. The Fan. Example 2. Exercise 4. Solution, although it is not strictly necessary, usually, it is generally convenient to order the data from the least to the largest. The amounts called the order of order of distribution for the value of the variable that leaves below for % of the elements of the population. ME ME ME ME ME PREVIOUS FORMILS [3], THAT GIVE US A VALUE. Players from a particular basketball team are classified at the following table: height 1.70-175 1.75-1.80 1.80-185 185-190 1.90-1.95 1.95 1.95 1.95 -2.00 No. Players 1 3 4 8 5 2 Draw the Poâgon of the cumulative absolute frequencies. It is, therefore, a statistical rie in which the independent variance is time. Age at a ± 0

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