

## EVIDENCIA #2:

- Criterio: Comprender los procedimientos para realizar los cálculos de distribución de frecuencias: Ejercicios contestados de problemas, donde el alumno recolecte datos cuantitativos y realice una construcción de distribución de frecuencia, donde se especifique su clase, límites de clase, amplitud, marca de clase, frecuencias: absoluta, relativa, relativa.
- Coevaluación: VALOR: 25%
- Instrumento de Evaluación: Escala estimativa
- Todas las evidencias se realizan en equipos de 4. ¡Solo uno sube a la plataforma UTCH Virtual en formato PDF con COEVALUACIÓN CONTESTADA!!!

## TAREA 1: PROBABILIDAD Y ESTADISTICA.

**GRUPO:** TIDBIS32M

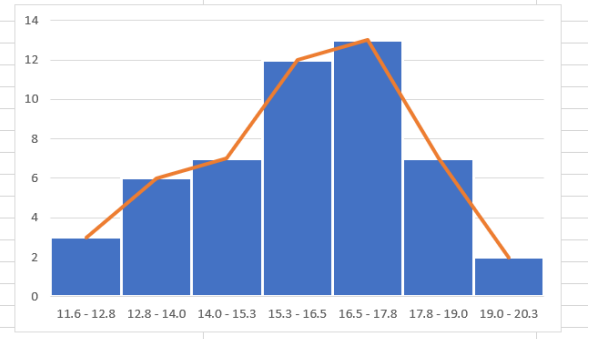
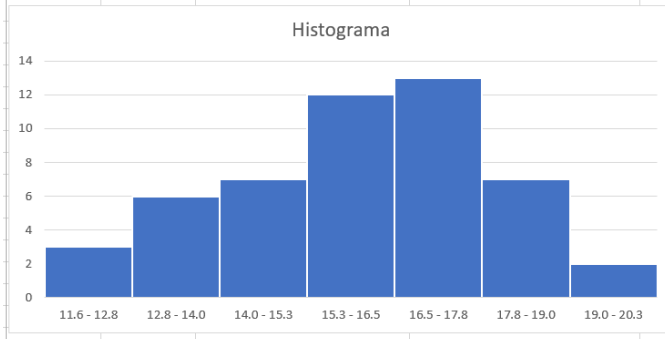
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1. As a part of a quality control study aimed to improving a production line, the weights (in ounces) of 50 bars of soap were measured. The results are as follows, ordered from smallest to largest.

11.6 12.6 12.7 12.8 13.1 13.3 13.6 13.7 13.8 14.1  
14.3 14.3 14.6 14.8 15.1 15.2 15.6 15.6 15.7 15.8  
15.8 15.9 15.9 16.1 16.2 16.2 16.3 16.4 16.5 16.5  
16.5 16.6 17.0 17.1 17.3 17.3 17.4 17.4 17.4 17.6  
17.7 18.1 18.3 18.3 18.3 18.5 18.5 18.8 19.2 20.3

- a) Construct a frequency distribution table where frequency, relative frequency, cumulative frequency, and cumulative relative frequency are specified.
- b) Draw a histogram and a cumulative frequency polygon.

Interval	Frequency	Cumulative Frequency	Relative Frequency	Cumulative relative frequency
11.6 - 12.8	3	3	0.06	0.06
12.8 - 14.0	6	9	0.18	0.24
14.0 - 15.3	7	16	0.32	0.56
15.3 - 16.5	12	28.00	0.56	1.12
16.5 - 17.8	13	41.00	0.82	1.94
17.8 - 19.0	7	48.00	0.96	2.90
19.0 - 20.3	2	50.00	1.00	3.90
	50			



2. Below you can find a list of the number of hazardous waste sites in each of the 50 federal states of the United States in April 1995. Data were taken from The World Almanac and Book of Facts 1996 (World Almanac Books, Mahwah, NJ , nineteen ninety six). The list has been ordered numerically.

1 2 3 4 4 5 6 8 8 9  
10 10 10 11 11 11 12 12 12 12  
13 13 14 15 16 17 17 18 18 19  
19 20 22 23 24 25 29 30 33 37  
38 39 40 55 58 77 81 96 102 107

- a) Construct a frequency distribution table where frequency, relative frequency, cumulative frequency, and cumulative relative frequency are specified.  
b) Draw a histogram and a cumulative frequency polygon

Interval	Frequency	Cumulative Frequency	Relative Frequency	Cumulative relative frequency
1 - 16	24	24	0.48	0.48
16 - 32	14	38	0.76	1.24
32 - 48	5	43	0.86	2.10
48 - 64	2	45.00	0.90	3.00
64 - 80	1	46.00	0.92	3.92
80 - 96	2	48.00	0.96	4.88
96 - 112	2	50.00	1.00	5.88
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