

Los tiempos de servicios de las ejecutivas que laboran en Standard Chemical.

Sea a) 
$$S^2 = \frac{5!}{2!(5-2)!}$$

$$S^2 = \frac{5 \times 4 \times 3 \times 2 \times 1}{2 \times 1(3)!}$$

$$S^2 = \frac{5 \times 4 \times 3 \times 2 \times 1}{2 \times 1 \times 3 \times 2 \times 1}$$

$$S^2 = 20$$

b)

Combinaciones	Servicio	Media	Medida
S, I	20, 22	—	21
S, K	20, 26	—	22
S, T	20, 24	—	24
S, J	20, 28	—	24
T, K	22, 26	—	23
T, I	22, 24	—	25
T, J	22, 28	—	25
K, I	26, 24	—	27
K, J	26, 28	—	26
I, J	24, 28	—	

Medida	Número	probabilidad
21	1	0.10
22	1	0.10
23	2	0.20
24	2	0.20
25	2	0.20
26	1	0.10
27	1	0.10
	<u>10</u>	<u>1</u>

Identifica la media poblacional y es 24, media de las medias de la muestra  $M_2$  también es 24.

$$Y_1 = 167.42 \quad Y_2 = 168 - 167.42$$

$$Y = 2.58$$

$$n = 25$$

$$X = 168$$

$$2.58$$

$$\sqrt{25}$$

$$Y = 0.58$$

$$2.58$$

$$5$$

$$Y = 0.58$$

$$0.58$$

$$f = 1.13$$

$$\textcircled{2} \sigma = 659.82$$

$$s = 18$$

$$n = 400$$

$$\bar{x} = 660$$

$$z = \frac{660 - 659.82}{\frac{18}{\sqrt{400}}}$$

$$= \frac{0.18}{0.045}$$

$$z = 4.0$$

$$t = 0.75$$

$$\textcircled{1} n = 90$$

$$s = 31$$

$$n = 90$$

$$\bar{x} = 72.7$$

$$z = \frac{72.7 - 72}{\frac{31}{\sqrt{90}}}$$

$$= \frac{0.7}{3.16}$$

$$= 0.22$$

$$t = 0.4$$

$$= 0.31$$

$$z = 0.33$$

$$\textcircled{3} \quad \mu = 864.5 \quad z = \frac{\bar{x} - \mu}{\frac{\sigma}{\sqrt{n}}}$$

$$\rho = 1.5$$

$$n = 25$$

$$\bar{x} = 857.5$$

$$z = \frac{857.5 - 864.5}{\frac{1.5}{\sqrt{25}}}$$

$$\frac{1.5}{\sqrt{25}}$$

$$z = \frac{-7}{3}$$