

[問1]

才39回 2級

$$\textcircled{1} \quad \bar{x} = \frac{\sum x}{n} = \frac{4676}{25} = \underline{\underline{187.04}} \textcircled{5}$$

(1) 5

$$S' = \sum x^2 - \frac{(\sum x)^2}{n} = 874610.68 - \frac{4676^2}{25} = 11.64$$

$$V = \frac{S}{n-1} = \frac{11.64}{24} = 0.485$$

$$S = \sqrt{V} = \sqrt{0.485} = \underline{\underline{0.6964}} \textcircled{1}$$

(2) 1

$$\textcircled{2} \quad X_i = (x_i - a) \times b \quad a = 185.0, b = 10$$

$$= (186.1 - 185) \times 10 = \underline{\underline{11}} \textcircled{1}$$

(3) 1

$$\sum X_i = 510, \bar{X} = \frac{510}{25} = 20.4$$

$$\bar{x} = a + \frac{\bar{X}}{b} = 185 + \frac{20.4}{10} = 187.04$$

$$S' = \sum X^2 - \frac{(\sum X)^2}{n} = 11568 - \frac{510^2}{25} = 1164$$

$$S = \frac{S'}{b^2} = \frac{1164}{10^2} = 11.64$$

(4) 1

$$\bar{x} = \bar{X}, S' = S \text{ - 一致する} \textcircled{2}$$

$$\textcircled{3} \quad \bar{x} = x_0 + c \times \frac{\sum fX}{n} = 186.8 + 0.5 \times \frac{13}{25} = \underline{\underline{187.06}} \textcircled{1}$$

(5) 1

$$V = c^2 \times \frac{\sum fX^2 - \frac{(\sum fX)^2}{n}}{n-1} = 0.5^2 \times \frac{57 - \frac{13^2}{25}}{24} = 0.5233 \dots$$

$$S = \sqrt{V} = \sqrt{0.5233} = \underline{\underline{0.723}} \textcircled{1}$$

(6) 1

平均も標準偏差も

必ずしも一致しない $\textcircled{1}$

(7) 5

当らずと言えども遠からず。