

$$\begin{array}{cccc} 2 & 4 & 6 & 8 \\ 81 & 93 & 91 & 91 \end{array}$$

$$\text{mean}(x) = \textcircled{5}$$

$$\text{mean}(y) = \frac{81+93+91+91}{4} = \frac{14+188}{4} = \frac{362}{4} = \frac{181}{2} = \underline{\underline{90.5}}$$

$$a = \frac{(2-5) \times (81-90.5) + (4-5) \times (93-90.5) + (6-5) \times (91-90.5) + (8-5) \times (91-90.5)}{(2-5)^2 + (4-5)^2 + (6-5)^2 + (8-5)^2}$$

$$(-3 \times -9.5) + (-1 \times -2.5) + (1 \times 0.5) + (3 \times 6.5)$$

$$= \frac{28.5 + 2.5 + 0.5 + 19.5}{9 + 1 + 1 + 9} = \frac{31 + 20}{20} = \frac{51}{20} =$$

$$\begin{array}{r} 20 \overline{) 51.5} \\ \underline{40} \\ 110 \\ \underline{100} \\ 10 \end{array} = \textcircled{\textcircled{2.55}}$$

$$b = 90.5 - (5 \times 2.55)$$

$$\begin{array}{r} 29/4 \\ 90.5/2 \\ \hline 12.15 \end{array} \quad 12.15$$

$$\uparrow \\ = \underline{\underline{11.15}}$$