

توجه: همکار گرامی لطفاً ورقه امتحانی را با خود کار قرمز تصحیح و با خود کار سبز تجدید نظر فرمائید

| ردیف | (پشت صفحه) | بارم | | | | | | | | | | | | | | | |
|------------|--|--------|--------|--------|--------|--------|--------|---|----|----|----|------------|----|----|-----|----|----|
| | $P(B_3 A) = \frac{2}{10} \times \frac{\frac{1}{3}}{\frac{1}{3} \times 1 + \frac{1}{3} \times 0 + \frac{1}{3} \times \frac{2}{10}} = \frac{2}{10} \times \frac{10}{12} = \frac{1}{6}$ | | | | | | | | | | | | | | | | |
| | $= P(A') + P(A) + P(B) + P(B') = 1 - P(A) + P(A) + P(B) + 1 - P(B') = 2$ | 9 | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td></td> <td>ریس</td> <td>بازرسی</td> <td>بازرسی</td> <td>بازرسی</td> </tr> <tr> <td>بازرسی</td> <td>5</td> <td>15</td> <td>30</td> <td>10</td> </tr> <tr> <td>α_i</td> <td>30</td> <td>90</td> <td>180</td> <td>40</td> </tr> </table> | | ریس | بازرسی | بازرسی | بازرسی | بازرسی | 5 | 15 | 30 | 10 | α_i | 30 | 90 | 180 | 40 | 10 |
| | ریس | بازرسی | بازرسی | بازرسی | | | | | | | | | | | | | |
| بازرسی | 5 | 15 | 30 | 10 | | | | | | | | | | | | | |
| α_i | 30 | 90 | 180 | 40 | | | | | | | | | | | | | |
| | $10 = \bar{x} + 5,5 \rightarrow \bar{x} = 4,5$ | 11 | | | | | | | | | | | | | | | |
| | $x = 13 \quad y = 15 \quad z = 20$ | 12 | | | | | | | | | | | | | | | |
| | $\bar{x} = 14 \quad \sigma^2 = \frac{24}{n} \quad \sigma = 1,9 \rightarrow \delta = 2,9 \quad CV = 0,18$ | | | | | | | | | | | | | | | | |
| | $2 - 2 - 3 - 4 - 5 - 5 - (7) - 8 - 8 - 8 - 9 - 12 - 14$ | 13 | | | | | | | | | | | | | | | |
| | $Q_2 = 5,5 \quad Q_1 = \frac{3+5}{2} = 4 \quad Q_3 = \frac{8+9}{2} = 8,5$ | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | <p>پریش - دارگان - ماهره</p> | 14 | | | | | | | | | | | | | | | |
| | $\delta_{\bar{x}} \leq \frac{1}{20} \delta \rightarrow \frac{\delta}{\sqrt{n}} \leq \frac{\delta}{20} \rightarrow \sqrt{n} \geq 20 \rightarrow n \geq 400$ | 15 | | | | | | | | | | | | | | | |
| | $\bar{x} = \frac{2+8+10+12+14}{5} = 10 \quad \delta = \frac{\sqrt{5}}{2} \quad \delta_{\bar{x}} = \frac{\sqrt{5}}{\sqrt{5}} = 1$ | 14 | | | | | | | | | | | | | | | |
| | $(10 - 2 \times \frac{1}{2}, 10 + 2 \times \frac{1}{2}) = (9, 11)$ | 15 | | | | | | | | | | | | | | | |