

حلول تمرين السلسلة الأولى لمقياس إحصاء 2 (احتمالات)

حل التمرين الثالث:

(1) إيجاد الحوادث:

$$A' = \Omega - A = \{c, e\}; B' = \Omega - B = \{a, c\}; A \cup B = \{a, b, d, e\}; A \cup B' = \{a, b, d, c\};$$

$$B' \setminus A = B' - A = \{c\}; B \setminus A = \{e\}; A \cap B = \{b, d\}; A' \cap B = \{e\};$$

$$(A \cap B)' = \Omega - (A \cap B) = \{a, c, e\}; (A \cup B)' = \Omega - (A \cup B) = \{c\}.$$

(2) إيجاد الاحتمالات:

$$P(A) = \frac{3}{5}; P(B) = \frac{3}{5}; P(A') = \frac{2}{5}; P(B') = \frac{2}{5}; P(A \cup B) = \frac{4}{5}; P(A \cup B') = \frac{4}{5}; B' \setminus A = \frac{1}{5};$$

$$P(B \setminus A) = \frac{1}{5}; P(A \cap B) = \frac{2}{5}; P(A' \cap B) = \frac{1}{5}; P(A' \cap B) = \frac{1}{5}; (A \cap B)' = \frac{3}{5}; (A \cup B)' = \frac{1}{5}.$$

حل التمرين الرابع: