



Probability Counting - Ways to Order 4 Cards, 0 Repeats - to Equation

1 How many distinct ways can these cards be ordered? Show as a multiplication. 9♣ 4♣ 10♦ 5♦	A $4 \cdot 3 \cdot 2$ $\frac{1 \cdot 3 \cdot 2}{3 \cdot 2}$ C $3 \cdot 2$ E $4 \cdot 3 \cdot 2$ B $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2}$ D $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$	2 How many distinct ways can these cards be ordered? Show as a multiplication. Q♥ J♥ 5♠ 4♠	A $4 \cdot 3 \cdot 2$ $\frac{3 \cdot 2}{2}$ C $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$ E $5 \cdot 4 \cdot 3 \cdot 2$ B $\frac{4 \cdot 3 \cdot 2}{2}$ D $3 \cdot 2$ F $4 \cdot 3 \cdot 2$
3 How many distinct ways can these cards be ordered? Show as a multiplication. Q♥ 8♥ 9♥ A♣	A $4 \cdot 3 \cdot 2$ C $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$ E $\frac{4 \cdot 3 \cdot 2}{1 \cdot 2}$ B $5 \cdot 4 \cdot 3 \cdot 2$ D $\frac{4 \cdot 3 \cdot 2}{2}$	4 How many distinct ways can these cards be ordered? Show as a multiplication. 10♣ K♠ J♠ 2♥	A $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$ C $\frac{4 \cdot 3 \cdot 2}{2}$ E $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2}$ B $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2}$ D $3 \cdot 2$ F $4 \cdot 3 \cdot 2$
5 How many distinct ways can these cards be ordered? Show as a multiplication. K♦ 10♠ 3♣ 6♠	A $5 \cdot 4 \cdot 3 \cdot 2$ C $3 \cdot 2$ E $4 \cdot 3 \cdot 2$ B $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$ D $\frac{4 \cdot 3 \cdot 2}{1 \cdot 2}$ F $\frac{4 \cdot 3 \cdot 2}{3 \cdot 2}$	6 How many distinct ways can these cards be ordered? Show as a multiplication. K♦ 8♣ 10♣ 2♥	A $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$ C $3 \cdot 2$ E $4 \cdot 3 \cdot 2$ B $\frac{4 \cdot 3 \cdot 2}{2}$ D $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2}$
7 How many distinct ways can these cards be ordered? Show as a multiplication. 7♣ 5♣ 6♦ A♦ A $3 \cdot 2$ C $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$ E $4 \cdot 3 \cdot 2$ B $\frac{4 \cdot 3 \cdot 2}{3 \cdot 2}$ D $\frac{4 \cdot 3 \cdot 2}{1 \cdot 3 \cdot 2}$ F $\frac{4 \cdot 3 \cdot 2}{1 \cdot 2}$		8 How many distinct ways can these cards be ordered? Show as a multiplication. Q♦ 7♥ 3♦ 2♥ A $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2}$ C $4 \cdot 3 \cdot 2$ E $4 \cdot 3 \cdot 2$ B $3 \cdot 2$ D $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$ F $\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2}$	