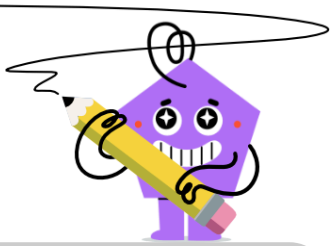
Name

Probability Counting - Ways to Order 4 Cards, 2 Repeats - to Equation



1 How many distinct ways can these cards be ordered? Show as a multiplication.

5♥ 7♥ 5♥ 7♥

A $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

B $\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$

C $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2 \cdot 2}$

D $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

E $\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$

F $\frac{4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$

2 How many distinct ways can these cards be ordered? Show as a multiplication.

5♦ 5♦ 10♠ 10♠

A $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

B $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$

C $\frac{4 \cdot 3 \cdot 2}{2 \cdot 4 \cdot 3 \cdot 2}$

D $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

E $\frac{4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$

F $\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$

3 How many distinct ways can these cards be ordered? Show as a multiplication.

8♠ 8♠ 10♦ 10♦

A $\frac{4 \cdot 3 \cdot 2}{2 \cdot 4 \cdot 3 \cdot 2}$

B $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

C $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2 \cdot 2}$

D $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2 \cdot 2}$

E $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

F $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$

4

Q♣ 5♣ 5♣ Q♣

How many distinct ways can these cards be ordered? Show as a multiplication.

A $\frac{3 \cdot 2}{2 \cdot 2}$

B $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 2}$

C $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

D $\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$

E $\frac{4 \cdot 3 \cdot 2}{2 \cdot 4 \cdot 3 \cdot 2}$

F $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

5

9♠ 9♠ 7♠ 7♠

How many distinct ways can these cards be ordered? Show as a multiplication.

A $\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$

B $\frac{4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$

C $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

D $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

E $\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$

6 How many distinct ways can these cards be ordered? Show as a multiplication.

A♣ A♣ 9♦ 9♦

A $\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$

B $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

C $\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$

D $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

E $\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2 \cdot 2}$

F $\frac{3 \cdot 2}{2 \cdot 2}$

7

8♠ 8♠ 3♠ 3♠

How many distinct ways can these cards be ordered? Show as a multiplication.

A $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

B $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

C $\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$

D $\frac{3 \cdot 2}{2 \cdot 2}$

E $\frac{4 \cdot 3 \cdot 2}{2 \cdot 4 \cdot 3 \cdot 2}$

8

4♥ Q♣ Q♣ 4♥

How many distinct ways can these cards be ordered? Show as a multiplication.

A $\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2 \cdot 2}$

B $\frac{4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$

C $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

D $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

E $\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$

F $\frac{3 \cdot 2}{2 \cdot 2}$