

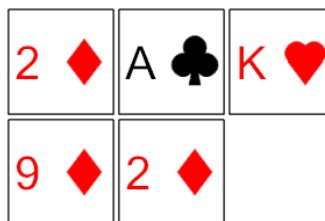


Math worksheet on 'Probability Counting - Ways to O 5 Cards, 1 Repeat - to Equation (Level 1)'. Part of broader unit on 'Probability and Statistics - Probabil with Factorials Intro'

Learn online:

app.mobius.academy/math/units/probability_and_statistics_probabil_with_factorials

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



a

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

b

$$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$$

c

$$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$$

d

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

e

$$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$$

f

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

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



a

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

b

$$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$$

c

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

d

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

e

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

f

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

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



a

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

b

$$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$$

c

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

d

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

e

$$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$$

f

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

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



a

$$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$$

b

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

c

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

d

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

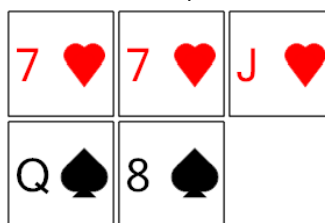
e

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

f

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

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



a

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

b

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

c

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

d

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

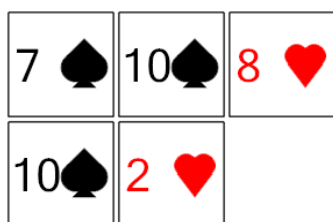
e

$$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$$

f

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

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



a

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

b

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

c

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

d

$$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$$

e

$$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$$

f

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

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



a

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

b

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

c

$$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$$

d

$$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$$

e

$$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2}$$

f

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