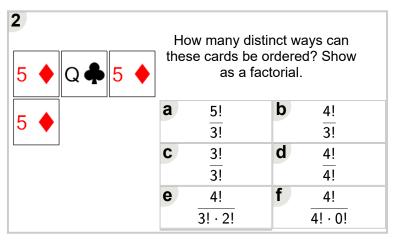# mobiu

Math worksheet on *'Probability Counting - Ways to O
Cards, 1 Repeat - to Factorial Equation (Level 1)'*. Pa
broader unit on *'Probability and Statistics - Probabilit
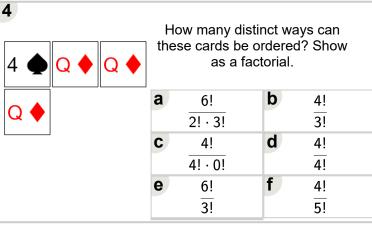Factorials Practice'*

Learn online:

app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials

1

3 ♦   7 ♦   3 ♦

3 ♦

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

a	$\dfrac{4!}{3!}$	b	$\dfrac{4!}{5!}$
c	$\dfrac{3!}{3!}$	d	$\dfrac{4!}{3! \cdot 3!}$
e	$\dfrac{4!}{4! \cdot 0!}$		

2

5 ♦   Q ♣   5 ♦

5 ♦

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

a	$\dfrac{5!}{3!}$	b	$\dfrac{4!}{3!}$
c	$\dfrac{3!}{3!}$	d	$\dfrac{4!}{4!}$
e	$\dfrac{4!}{3! \cdot 2!}$	f	$\dfrac{4!}{4! \cdot 0!}$

3

8 ♥   8 ♥   8 ♥

K ♣

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

a	$\dfrac{4!}{3! \cdot 2!}$	b	$\dfrac{4!}{3!}$
c	$\dfrac{4!}{4!}$	d	$\dfrac{5!}{3!}$
e	$\dfrac{4!}{4! \cdot 0!}$	f	$\dfrac{3!}{3!}$

4

4 ♠   Q ♦   Q ♦

Q ♦

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

a	$\dfrac{6!}{2! \cdot 3!}$	b	$\dfrac{4!}{3!}$
c	$\dfrac{4!}{4! \cdot 0!}$	d	$\dfrac{4!}{4!}$
e	$\dfrac{6!}{3!}$	f	$\dfrac{4!}{5!}$

5

Q ♣   J ♦   Q ♣

Q ♣

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

a	$\dfrac{4!}{4!}$	b	$\dfrac{4!}{3!}$
c	$\dfrac{4!}{3! \cdot 2!}$	d	$\dfrac{4!}{4! \cdot 0!}$
e	$\dfrac{3!}{3!}$		

6

5 ♠   J ♦   J ♦

J ♦

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

a	$\dfrac{4!}{4!}$	b	$\dfrac{4!}{4! \cdot 0!}$
c	$\dfrac{3!}{3!}$	d	$\dfrac{6!}{4! \cdot 3!}$
e	$\dfrac{4!}{3!}$		

7

10 ♥   2 ♠   10 ♥

10 ♥

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

a	$\dfrac{4!}{3!}$	b	$\dfrac{4!}{4! \cdot 0!}$
c	$\dfrac{4!}{4!}$	d	$\dfrac{4!}{3! \cdot 2!}$
e	$\dfrac{6!}{2! \cdot 3!}$	f	$\dfrac{3!}{3!}$