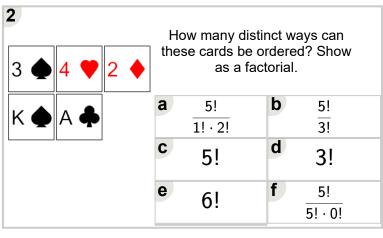**mobiu**

Math worksheet on *'Probability Counting - Ways to O
Cards, 0 Repeats - to Factorial Equation (Level 1)'*. F
a broader unit on *'Probability and Statistics - Proba
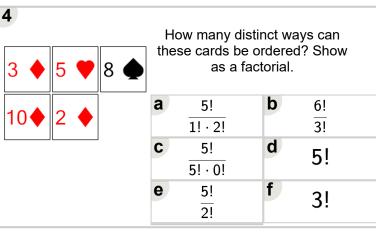with Factorials Practice'*

Learn online:
app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials

1

| K♣ | 2♦ | 9♠ |
| 4♣ | J♦ | |

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

a	$5!$	b	$6!$
c	$\dfrac{5!}{2!}$	d	$3!$
e	$\dfrac{5!}{1! \cdot 3!}$	f	$\dfrac{5!}{5! \cdot 0!}$

2

| 3♠ | 4♥ | 2♦ |
| K♠ | A♣ | |

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

a	$\dfrac{5!}{1! \cdot 2!}$	b	$\dfrac{5!}{3!}$
c	$5!$	d	$3!$
e	$6!$	f	$\dfrac{5!}{5! \cdot 0!}$

3

| 8♥ | K♥ | 6♥ |
| 3♠ | 7♦ | |

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

a	$\dfrac{5!}{1! \cdot 3!}$	b	$5!$
c	$\dfrac{5!}{5! \cdot 0!}$		

4

| 3♦ | 5♥ | 8♠ |
| 10♦ | 2♦ | |

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

a	$\dfrac{5!}{1! \cdot 2!}$	b	$\dfrac{6!}{3!}$
c	$\dfrac{5!}{5! \cdot 0!}$	d	$5!$
e	$\dfrac{5!}{2!}$	f	$3!$

5

| A♣ | Q♣ | 10♦ |
| 9♣ | 2♠ | |

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

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

6

| 4♣ | 6♥ | K♦ |
| 8♣ | Q♥ | |

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

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

7

| A♦ | 9♦ | 6♠ |
| 10♥ | J♥ | |

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

a	$7!$	b	$\dfrac{5!}{2!}$
c	$4!$	d	$\dfrac{5!}{5! \cdot 0!}$
e	$\dfrac{5!}{3!}$	f	$5!$