



Math worksheet on 'Probability Counting - Ways to O
3 Cards, 0 Repeats - to Factorial Equation (Level 1
Part of a broader unit on 'Probability and Statistics
Probability with Factorials Intro'

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app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials

1



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

a	$3!$	b	$\frac{3!}{1! \cdot 3!}$
c	$\frac{3!}{3! \cdot 0!}$	d	$4!$
e	$\frac{3!}{2!}$		

2



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

a	$\frac{3!}{2!}$	b	$4!$
c	$\frac{3!}{3! \cdot 0!}$	d	$3!$
e	$\frac{3!}{1! \cdot 2!}$		

3



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

a	$\frac{4!}{2!}$	b	$3!$
c	$\frac{3!}{3! \cdot 0!}$		

4



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

a	$\frac{3!}{3! \cdot 0!}$	b	$\frac{3!}{2!}$
c	$\frac{3!}{1! \cdot 3!}$	d	$3!$

5



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

a	$\frac{3!}{1! \cdot 3!}$	b	$5!$
c	$\frac{4!}{2!}$	d	$3!$
e	$\frac{3!}{3! \cdot 0!}$		

6



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

a	$3!$	b	$\frac{3!}{3!}$
c	$\frac{3!}{2!}$	d	$\frac{3!}{3! \cdot 0!}$
e	$\frac{3!}{1! \cdot 2!}$		

7



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

a	$3!$	b	$4!$
c	$\frac{3!}{2!}$	d	$\frac{3!}{1! \cdot 3!}$
e	$\frac{3!}{3! \cdot 0!}$	f	$\frac{5!}{2!}$