

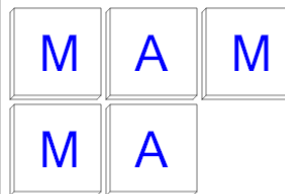


Math worksheet on 'Probability Counting - Duplicate 5 Letters, 2 Repeats - to Factorial Equation (Level 1)'
broader unit on 'Probability and Statistics - Binomial Intro'

Learn online:

app.mobius.academy/math/units/probability_and_statistics/probability_with_binomial

1



How many ways can these letter tiles be ordered to spell 'MAMMA'? Show as a factorial.

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

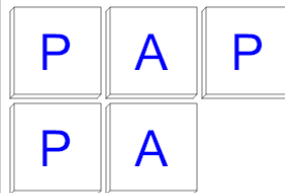
2



How many ways can these letter tiles be ordered to spell 'MAMMA'? Show as a factorial.

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

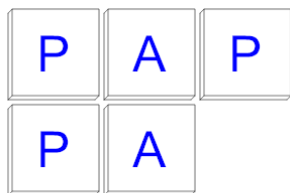
3



How many ways can these letter tiles be ordered to spell 'PAPPA'? Show as a factorial.

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

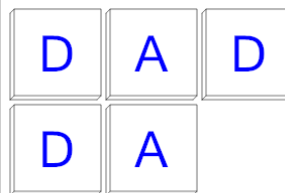
4



How many ways can these letter tiles be ordered to spell 'PAPPA'? Show as a factorial.

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

5



How many ways can these letter tiles be ordered to spell 'DADDA'? Show as a factorial.

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

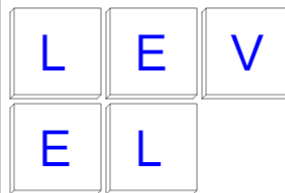
6



How many ways can these letter tiles be ordered to spell 'DADDA'? Show as a factorial.

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

7



How many ways can these letter tiles be ordered to spell 'LEVEL'? Show as a factorial.

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