



Math worksheet on 'Probability Counting - Duplicate (in 5 Letters, 1 Repeat - to Factorial Equation (Level 1) Part of a broader unit on 'Probability and Statistics - Probability with Factorials Practice'

Learn online:

app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials

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

A	P	P
L	E	

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

1

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

B	U	B
B	Y	

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

3

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

S	A	S
S	Y	

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

4

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

P	I	Z
Z	A	

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

5

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

F	O	O
L	S	

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

6

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

T	O	T
E	M	

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

7

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

S	P	I
L	L	

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