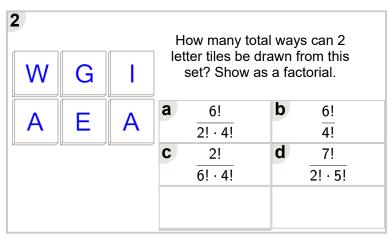**mo**

Math worksheet on *'Probability Counting - Choose N
Count of Total Outcomes - To Factorial Equation (Le*
broader unit on *'Probability and Statistics - Perm*
Combinations Calculating - Practice

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

1

C	O	R
E	H	O

How many total ways can 2 letter tiles be drawn from this set? Show as a factorial.

a	$\dfrac{8!}{2! \cdot 6!}$	b	$\dfrac{8!}{3! \cdot 5!}$
c	$\dfrac{2!}{6! \cdot 4!}$	d	$\dfrac{6!}{4!}$
e	$\dfrac{6!}{2! \cdot 4!}$		

2

W	G	I
A	E	A

How many total ways can 2 letter tiles be drawn from this set? Show as a factorial.

a	$\dfrac{6!}{2! \cdot 4!}$	b	$\dfrac{6!}{4!}$
c	$\dfrac{2!}{6! \cdot 4!}$	d	$\dfrac{7!}{2! \cdot 5!}$

3

X	U	S
E	U	I
J		

How many total ways can 2 letter tiles be drawn from this set? Show as a factorial.

a	$\dfrac{2!}{7! \cdot 5!}$	b	$\dfrac{7!}{2! \cdot 5!}$
c	$\dfrac{7!}{5!}$		

4

M	W	O
E	Q	E

How many total ways can 2 letter tiles be drawn from this set? Show as a factorial.

a	$\dfrac{8!}{2! \cdot 6!}$	b	$\dfrac{2!}{6! \cdot 4!}$
c	$\dfrac{6!}{4!}$	d	$\dfrac{6!}{2! \cdot 4!}$

5

O	X	A
O	T	E
K		

How many total ways can 3 letter tiles be drawn from this set? Show as a factorial.

a	$\dfrac{3!}{7! \cdot 4!}$	b	$\dfrac{7!}{4!}$
c	$\dfrac{7!}{3! \cdot 4!}$		

6

A	C	I
B	O	

How many total ways can 2 letter tiles be drawn from this set? Show as a factorial.

a	$\dfrac{2!}{5! \cdot 3!}$	b	$\dfrac{7!}{3! \cdot 4!}$
c	$\dfrac{5!}{3!}$	d	$\dfrac{5!}{2! \cdot 3!}$
e	$\dfrac{6!}{2! \cdot 4!}$	f	$\dfrac{4!}{2! \cdot 2!}$

7

U	K	O
S	I	

How many total ways can 2 letter tiles be drawn from this set? Show as a factorial.

a	$\dfrac{5!}{3!}$	b	$\dfrac{5!}{2! \cdot 3!}$
c	$\dfrac{2!}{5! \cdot 3!}$		