Math worksheet on *'Probability Counting - Ways to 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

R R H H

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

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

2

R R I I

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

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

3

J Y J Y

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

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

4

F F G G

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

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

5

X Y Y X

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

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

6

H F F H

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

a $\frac{4!}{4! \cdot 2!}$	**b** $\frac{4!}{2! \cdot 2!}$
c $\frac{6!}{4! \cdot 2! \cdot 2!}$	**d** $\frac{3!}{2! \cdot 2!}$
e $\frac{4!}{4! \cdot 0!}$	

7

F Y Y F

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

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