Math worksheet on *'Probability Counting - Choose N -*
Count of Favorable Outcomes - To Factorial Equation
a broader unit on *'Probability and Statistics - Per*
Combinations Calculating - Practice

1

O	E	O
A	N	V
S		

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

a $4!$		**b** $\dfrac{6!}{2! \cdot 4!}$	
c $\dfrac{5!}{2! \cdot 3!}$		**d** $\dfrac{4!}{3! \cdot 1!}$	
e $\dfrac{3!}{2! \cdot 1!}$		**f** $\dfrac{3!}{4! \cdot 1!}$	

2

Q	I	D
O	U	U
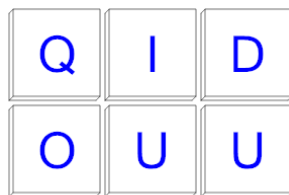
How many ways can 3 vowels be drawn from this set? Show as a factorial.

a $\dfrac{4!}{3! \cdot 1!}$	**b** $4!$
c $\dfrac{3!}{4! \cdot 1!}$	

3

N	U	E
W	U	
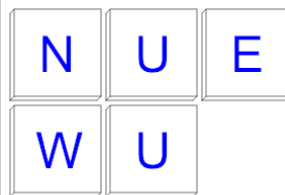
How many ways can 2 vowels be drawn from this set? Show as a factorial.

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

4

H	O	C
O	Q	G
O		
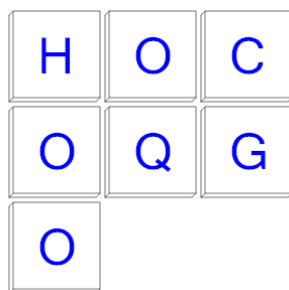
How many ways can 2 vowels be drawn from this set? Show as a factorial.

a $3!$	**b** $\dfrac{3!}{2! \cdot 1!}$
c $\dfrac{4!}{2! \cdot 2!}$	

5

M	I	R
D	U	O
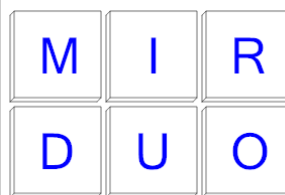
How many ways can 2 vowels be drawn from this set? Show as a factorial.

a $\dfrac{2!}{3! \cdot 1!}$	**b** $3!$
c $\dfrac{3!}{2! \cdot 1!}$	**d** $\dfrac{4!}{2! \cdot 2!}$

6

U	I	I
L	I	
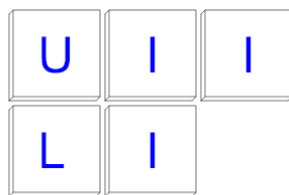
How many ways can 3 vowels be drawn from this set? Show as a factorial.

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

7

H	I	A
O	W	
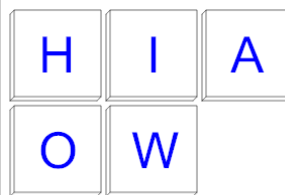
How many ways can 2 vowels be drawn from this set? Show as a factorial.

a $\dfrac{3!}{2! \cdot 1!}$	**b** $\dfrac{4!}{2! \cdot 2!}$
c $3!$	**d** $\dfrac{2!}{3! \cdot 1!}$