Math worksheet on *'Probability nCm Notation - Desc to Formula (Level 1)'*. Part of a broader unit on *'Prob and Statistics - Probability with Factorials Practic*

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1

Select the correct formula for this description

With a group of 5 options how many ways are there to choose a set of 2 options regardless of order?

a $\frac{5!}{3!}$	**b** $\frac{5!}{2! \cdot 3!}$
c $\frac{2!}{5! \cdot 3!}$	**d** $\frac{5!}{4! \cdot 1!}$
e $\frac{4!}{3! \cdot 1!}$	**f** $\frac{3!}{3! \cdot 0!}$

2

Select the correct formula for this description

From a group of 6 items select a set of 4 items regardless of order.

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

3

Select the correct formula for this description

From a group of 6 items select a set of 6 items regardless of order.

a $6!$	**b** $\frac{6!}{6! \cdot 0!}$
c $\frac{7!}{4! \cdot 3!}$	**d** $\frac{4!}{4! \cdot 0!}$

4

Select the correct formula for this description

With a group of 4 options how many ways are there to choose a set of 4 options regardless of order?

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

5

Select the correct formula for this description

With a group of 4 options how many ways are there to choose a set of 2 options regardless of order?

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

6

Select the correct formula for this description

With a group of 4 options how many ways are there to choose a set of 3 options regardless of order?

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

7

Select the correct formula for this description

With a group of 5 options how many ways are there to choose a set of 4 options regardless of order?

a $\frac{7!}{6! \cdot 1!}$	**b** $\frac{5!}{4! \cdot 1!}$
c $5!$	**d** $\frac{4!}{5! \cdot 1!}$