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Math worksheet on *'Probability nCm Notation - Form to Description (Level 1)'*. Part of a broader unit on *'Probability and Statistics - Probability with Factoria Intro'*

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1 Select the correct description for this formula

$$\frac{6!}{3! \cdot 3!}$$

a With a group of 6 items, if you choose 3 in a specific order, how many permutations are possible?

b From a group of 6 items select a set of 3 items regardless of order.

c With a group of 3 options how many ways are there to choose a set of 6 options regardless of order?

2 Select the correct description for this formula

$$\frac{4!}{3! \cdot 1!}$$

a Choose 3 options in a specific order from a group of 4 options

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

c With a group of 4 items, if you choose 3 in a specific order, how many permutations are possible?

3 Select the correct description for this formula

$$\frac{4!}{2! \cdot 2!}$$

a Choose a set of 4 items from a group of 2 total items. Ignore the order.

b From a group of 4 items select a set of 2 items regardless of order.

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

4 Select the correct description for this formula

$$\frac{5!}{4! \cdot 1!}$$

a From a group of 5 items select a set of 4 items regardless of order.

b From a group of 7 items select a set of 6 items regardless of order.

c From a group of 4 items select a set of 2 items regardless of order.

5 Select the correct description for this formula

$$\frac{4!}{4! \cdot 0!}$$

a Choose a set of 3 items from a group of 3 total items. Ignore the order.

b With a group of 4 items, if you choose 4 in a specific order, how many permutations are possible?

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

6 Select the correct description for this formula

$$\frac{5!}{3! \cdot 2!}$$

a Choose a set of 3 items from a group of 5 total items. Ignore the order.

b Choose 3 options in a specific order from a group of 5 options

c With a group of 3 options how many ways are there to choose a set of 5 options regardless of order?

7 Select the correct description for this formula

$$\frac{6!}{5! \cdot 1!}$$

a With a group of 6 items, if you choose 5 in a specific order, how many permutations are possible?

b From a group of 6 items select a set of 5 items regardless of order.

c From a group of 5 items select a set of 6 items regardless of order.