



Math worksheet on 'Probability nPm Notation - Des Formula (Level 1)'. Part of a broader unit on 'Probability - Binomial Notation Practice'

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1

Select the correct formula for this description

Choose 2 options in a specific order from a group of 6 options

<b>a</b>	$\frac{6!}{4!}$	<b>b</b>	$\frac{5!}{3!}$
<b>c</b>	$\frac{6!}{4! \cdot 1! \cdot 2!}$	<b>d</b>	$\frac{6!}{4! \cdot 2!}$
<b>e</b>	$\frac{6!}{2! \cdot 4!}$	<b>f</b>	$\frac{8!}{6!}$

2

Select the correct formula for this description

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

<b>a</b>	$3!$	<b>b</b>	$6!$
<b>c</b>	$\frac{4!}{3! \cdot 1!}$	<b>d</b>	$\frac{4!}{1! \cdot 2!}$
<b>e</b>	$4!$		

3

Select the correct formula for this description

Choose 5 options in a specific order from a group of 6 options

<b>a</b>	$\frac{7!}{3!}$	<b>b</b>	$\frac{6!}{5! \cdot 1!}$
<b>c</b>	$6!$	<b>d</b>	$5!$
<b>e</b>	$\frac{6!}{2!}$	<b>f</b>	$\frac{6!}{3!}$

4

Select the correct formula for this description

Choose 2 options in a specific order from a group of 3 options

<b>a</b>	$\frac{3!}{1! \cdot 2!}$	<b>b</b>	$\frac{3!}{2!}$
<b>c</b>	$\frac{3!}{2! \cdot 1!}$	<b>d</b>	$\frac{3!}{3!}$
<b>e</b>	$3!$	<b>f</b>	$2!$

5

Select the correct formula for this description

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

<b>a</b>	$\frac{5!}{2!}$	<b>b</b>	$6!$
<b>c</b>	$5!$	<b>d</b>	$\frac{5!}{1! \cdot 2!}$
<b>e</b>	$\frac{5!}{5! \cdot 0!}$		

6

Select the correct formula for this description

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

<b>a</b>	$\frac{5!}{3!}$	<b>b</b>	$3!$
<b>c</b>	$\frac{3!}{3! \cdot 0!}$	<b>d</b>	$\frac{3!}{3!}$
<b>e</b>	$\frac{3!}{1! \cdot 3!}$		

7

Select the correct formula for this description

From a group of 4 options how many ways are there to choose 2 options in a specific order?

<b>a</b>	$\frac{4!}{2! \cdot 2!}$	<b>b</b>	$\frac{4!}{2! \cdot 1! \cdot 3!}$
<b>c</b>	$\frac{2!}{2!}$	<b>d</b>	$3!$
<b>e</b>	$\frac{4!}{2!}$	<b>f</b>	$\frac{5!}{3!}$