



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

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| <p>1 Select the correct description for this formula</p> $\frac{3!}{2! \cdot 1!}$ | <p>a With a group of 3 options how many ways are there to choose a set of 2 options regardless of order?</p> |
| | <p>b Choose 2 options in a specific order from a group of 3 options</p> |
| | <p>c From a group of 3 options how many ways are there to choose 2 options in a specific order?</p> |

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| <p>2 Select the correct description for this formula</p> $\frac{6!}{6! \cdot 0!}$ | <p>a Choose 6 options in a specific order from a group of 6 options</p> |
| | <p>b From a group of 6 options how many ways are there to choose 6 options in a specific order?</p> |
| | <p>c From a group of 6 items select a set of 6 items regardless of order.</p> |

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| <p>3 Select the correct description for this formula</p> $\frac{6!}{3! \cdot 3!}$ | <p>a With a group of 3 options how many ways are there to choose a set of 6 options regardless of order?</p> |
| | <p>b With a group of 6 items, if you choose 3 in a specific order, how many permutations are possible?</p> |
| | <p>c From a group of 6 items select a set of 3 items regardless of order.</p> |

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| <p>4 Select the correct description for this formula</p> $\frac{4!}{3! \cdot 1!}$ | <p>a With a group of 4 options how many ways are there to choose a set of 3 options regardless of order?</p> |
| | <p>b With a group of 4 items, if you choose 3 in a specific order, how many permutations are possible?</p> |
| | <p>c Choose 3 options in a specific order from a group of 4 options</p> |

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| <p>5 Select the correct description for this formula</p> $\frac{5!}{4! \cdot 1!}$ | <p>a From a group of 7 items select a set of 6 items regardless of order.</p> |
| | <p>b From a group of 5 items select a set of 4 items regardless of order.</p> |
| | <p>c From a group of 4 items select a set of 2 items regardless of order.</p> |

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| <p>6 Select the correct description for this formula</p> $\frac{5!}{5! \cdot 0!}$ | <p>a From a group of 5 items select a set of 5 items regardless of order.</p> |
| | <p>b From a group of 5 options how many ways are there to choose 5 options in a specific order?</p> |
| | <p>c Choose 5 options in a specific order from a group of 5 options</p> |

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| <p>7 Select the correct description for this formula</p> $\frac{6!}{5! \cdot 1!}$ | <p>a With a group of 6 items, if you choose 5 in a specific order, how many permutations are possible?</p> |
| | <p>b From a group of 5 items select a set of 6 items regardless of order.</p> |
| | <p>c From a group of 6 items select a set of 5 items regardless of order.</p> |