



## Probability Counting - Choose N Cards from M, Count of Total Outcomes - To

### Bracket Notation

<p><b>1</b> How many total ways can 2 cards be drawn from this set? Show as a binomial coefficient (bracket notation)</p> <p>2 ♥ J ♥ J ♠</p> <p>9 ♠ J ♦ K ♣</p> <p>J ♣</p>	<p>A</p> $\binom{7}{2}$	<p>B</p> $\binom{9}{3}$	<p>C</p> $\binom{8}{3}$	<p><b>2</b> How many total ways can 2 cards be drawn from this set? Show as a binomial coefficient (bracket notation)</p> <p>7 ♣ 7 ♠ 9 ♦</p> <p>7 ♥ 2 ♣ 7 ♦</p>	<p>A</p> $\binom{2}{6}$	<p>B</p> $\binom{8}{3}$	<p>C</p> $\binom{6}{2}$
<p><b>3</b> How many total ways can 3 cards be drawn from this set? Show as a binomial coefficient (bracket notation)</p> <p>J ♦ A ♥ 3 ♠</p> <p>3 ♦ 3 ♥ 3 ♣</p> <p>Q ♥</p>	<p>A</p> $\binom{9}{2}$	<p>B</p> $\binom{3}{7}$	<p>C</p> $\binom{6}{2}$	<p><b>4</b> How many total ways can 2 cards be drawn from this set? Show as a binomial coefficient (bracket notation)</p> <p>J ♣ J ♠ J ♦</p> <p>J ♥ A ♦</p>	<p>A</p> $\binom{7}{2}$	<p>B</p> $\binom{5}{3}$	<p>C</p> $\binom{3}{2}$
<p><b>5</b> How many total ways can 2 cards be drawn from this set? Show as a binomial coefficient (bracket notation)</p> <p>6 ♥ 9 ♦ J ♠</p> <p>6 ♣ 6 ♠ 2 ♦</p>	<p>A</p> $\binom{8}{4}$	<p>B</p> $\binom{4}{2}$	<p>C</p> $\binom{6}{2}$	<p><b>6</b> How many total ways can 3 cards be drawn from this set? Show as a binomial coefficient (bracket notation)</p> <p>2 ♣ 10 ♣ 2 ♦</p> <p>2 ♠ 8 ♥ 2 ♥</p> <p>K ♥</p>	<p>A</p> $\binom{5}{5}$	<p>B</p> $\binom{6}{4}$	<p>C</p> $\binom{7}{3}$
<p><b>7</b> How many total ways can 2 cards be drawn from this set? Show as a binomial coefficient (bracket notation)</p> <p>10 ♦ Q ♦ 8 ♦</p> <p>10 ♣ J ♣ 10 ♠</p> <p>9 ♠</p>	<p>A</p> $\binom{5}{4}$	<p>B</p> $\binom{7}{3}$	<p>C</p> $\binom{2}{7}$	<p><b>8</b> How many total ways can 3 cards be drawn from this set? Show as a binomial coefficient (bracket notation)</p> <p>K ♣ J ♠ K ♦</p> <p>K ♠ K ♥ 6 ♣</p> <p>Q ♥</p>	<p>A</p> $\binom{7}{3}$	<p>B</p> $\binom{3}{7}$	<p>C</p> $\binom{5}{4}$
	<p>D</p> $\binom{5}{2}$	<p>E</p> $\binom{2}{7}$	<p>F</p> $\binom{7}{3}$		<p>D</p> $\binom{8}{2}$	<p>E</p> $\binom{4}{2}$	<p>F</p> $\binom{5}{4}$