

Use the Fundamental Counting Principle, or draw a tree diagram, to find the number of possible scarf combinations. There are two fabrics, two trimmings, and three lengths, so $2 \cdot 2 \cdot 3 = 12$ possible combinations. The event space is $\{(\text{cotton, beading, long}), (\text{cotton, fringe, long}), (\text{silk, beading, long}), (\text{silk, fringe, long})\}$. The size of the event space is 4, so $\frac{4}{12}$, or $\frac{1}{3}$, is the probability of the event occurring.