Examples with sample spaces that have equally likely outcomes.

1. Suppose that  $S = \{\bullet, \Box, \star\}$ . Reasonable to assume that each of the outcomes is equally likely to appear, if the child chooses the shape blindly, say, from a bag. In that case,  $P(\{\bullet\}) = 1/3$  and  $P(\{\Box\}) = 1/3$  and  $P(\{\star\}) = 1/3$ . Similarly, if  $A = \{\bullet, \star\}$ , then P(A) = 2/3.

2. Draw a card from a deck of 52 cards total. It is reasonable to assume that all 52 cards are equally likely to appear. So, for instance, P(2C) = 1/52.

3. Draw a cookie from a jar that contains 30 cookies altogether. Make the choice blindly. If 17 of the cookies are chocolate, then the probability of selecting a chocolate is 17/30.

4. Roll two dice. Say one die is red and one die is green. The probability that the green die shows 3 and the red die shows 1 is exactly 1/36. The probability that a 1 and a 3 appear (without regard to color) is 2/36. The probability that two occurrences of 5 appears simultaneously on the two die is 1/36.