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4) A six-sided die is rolled six times. What is the probability that the die will show an even number exactly two times?

Example	
5) A test consists of nine true/false questions. A student who forgot to study guesses randomly on every question. What is the probability that the student answers at least two questions correctly?	
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## Example

6) A basketball player has a 50% chance of making each free throw. What is the probability that the player makes at least eleven out of twelve free throws?