

7.1 An Introduction to Probability

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What is the probability that when a coin is flipped six times in a row, it lands heads up every time?

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What is the probability that a five-card poker hand contains two pairs (that is, two of each of two different kinds and a fifth card of a third kind)?

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What is the probability that a positive integer not exceeding 100 selected at random is divisible by 5 or 7?

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What is the probability that Abby, Barry, and Sylvia win the first, second, and third prizes, respectively, in a drawing if 200 people enter a contest and

- a) no one can win more than one prize.
- b) winning more than one prize is allowed.