

## GMAT Quant Section Test [PROBABILITY] - Questions

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- 1. Amanda is making cards for playing cards with her friends. If there are 20 cards that have either a blue number or a purple number that is between 1 and 15 inclusive, what is the probability that a card will either be blue or odd?
  - (1) The probability that the card is blue and odd is 10%.
  - (2) The probability that the card will be blue minus the probability that it will be odd is 20%.
  - A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
  - B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
  - C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
  - D. Each statement alone is sufficient to answer the question.
  - E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.
- 2. A bag contains only red pebbles and orange pebbles. If two thirds of the pebbles are red, how many orange pebbles are in the bag?
  - (1) If two pebbles were to be drawn, simultaneously and at random, from the bag, there is a 5/12 probability that both would be red.
  - (2) If one orange pebble were removed from the bag, there would be a 1/4 probability that the next randomlydrawn pebble would be orange.
  - A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
  - B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
  - C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
  - D. Each statement alone is sufficient to answer the question.
  - E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.
- 3. Serena Williams and Venus Williams play a series of 5 tennis games. The probability that Serena wins a game is 2/5. The series will be won by the person who wins 3 matches. What is the probability that Serena wins the series?
  - (1) The series ends the moment when any of the two wins 3 matches.
  - (2) The probability that Venus wins a game is 3/5.
  - A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
  - B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
  - C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
  - D. Each statement alone is sufficient to answer the question.
  - E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

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- 4. In a university of 30 professors, there are 17 female professors and 13 male professors. In that five professors are BEST professors, and three of these professors are female professors. If a professor is chosen at random, what is the probability of choosing a female professor or a BEST professor?
  - A. 17/180
  - B. 19/30
  - C. 11/15
  - D. 14/15
  - E. None of the above.
- 5. Joy and Joe decide to have 8 children. If they succeed in having 8 kids and each kid equally likely to be a boy or a girl, what is the probability that they will have exactly 4 girls?
  - 75 128 A.

  - 55 256 B.
  - 35 C. 128
  - 45
  - D. 128
  - 25 E. 128



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