

GRE Quant Practice Test 6

Question 1

Choose a number at random from 1 to 5.

Column A

The probability of choosing an even number

Column B

The probability of choosing an odd number

Possible Answers:

Column A is greater

Cannot be determined

Column A and B are equal

Column B is greater

Question 2

Two fair dice are thrown. What is the probability that the outcome will either total 7 or include a 3?

Possible Answers:

$\frac{2}{3}$

$\frac{5}{12}$

$\frac{1}{2}$

$\frac{8}{9}$

Question 3

Box A has 10 green balls and 8 black balls.

Box B has 9 green balls and 5 black balls.

What is the probability if one ball is drawn from each box that both balls are green?

Possible Answers:

$$\frac{5}{9}$$

$$\frac{10}{49}$$

$$\frac{5}{14}$$

$$\frac{19}{252}$$

$$\frac{9}{14}$$

Question 4

The probability that events A and/or B will occur is 0.88.

Quantity A: The probability that event A will occur.

Quantity B: 0.44.

Possible Answers:

The two quantities are equal.

The relationship cannot be determined from the information given.

Quantity B is greater.

Quantity A is greater.

Question 5

a is chosen randomly from the following set:

$\{3, 11, 18, 22\}$

b is chosen randomly from the following set:

$\{4, 8, 16, 32, 64, 128\}$

What is the probability that $a + b = 27$?

Possible Answers:

0.1

0.03

0.05

0.04

0.5

Question 6

There are four aces in a standard deck of playing cards. What is the approximate probability of drawing two consecutive aces from a standard deck of 52 playing cards?

Possible Answers:

0.05

0.5

0.4

0.005

0.004

Question 7

In a bag, there are 10 red, 15 green, and 12 blue marbles. If you draw two marbles (without replacing), what is the approximate probability of drawing two different colors?

Possible Answers:

None of the other answers

67.57%

33.33%

0.06%

25%

Question 8

What is the probability of drawing 2 hearts from a standard deck of cards without replacement?

Possible Answers:

12/52

1/4

1/16

1/17

13/52

Question 9

Mike has a bag of marbles. 5 are green, 8 are red, and 3 are blue. He pulls one marble out of the bag and it is green. He pulls out another one and it is red. He does not return these marbles to the bag. What is the probability that the next marble he pulls out of the bag will be green?

Possible Answers:

4/14

5/14

3/16

4/16

Question 10

A classroom has 9 boys and 9 girls. One student is chosen at random as the class leader, and a second student is chosen at random as a back-up leader.

Quantity A: The probability of choosing a boy to be the leader and choosing a girl to be the back-up

Quantity B: The probability of choosing boys for both roles

Possible Answers:

Quantity A is greater

The quantities are equal

The relationship cannot be determined from the information give

Quantity B is greater