

GRE Quant Practice Test 5

Question 1

In a class, there are 15 students who like chocolate. 13 students like vanilla. 10 students like neither. If there are 35 people in the class, how many students like chocolate and vanilla?

Possible Answers:

10

13

25

2

3

Question 2

A given company has 1500 employees. Of those employees, 800 are computer science majors. 25% of those computer science majors are also mathematics majors. That group of computer science/math dual majors makes up one third of the total mathematics majors. How many employees have majors other than computer science and mathematics?

Possible Answers:

500

None of the other answers.

300

250

100

Question 3

In a population of cats, 10% are tabby colored, 5% are pregnant, and 3% are both tabby and pregnant. What is the probability that a cat is tabby but not pregnant?

Possible Answers:

5%

3%

7%

7.5%

10%

Question 4

At an overpriced department store there are

112

customers. If

43

have purchased shirts,

57

have purchased pants, and

38

have purchased neither, how many purchased both shirts and pants?

Possible Answers:

14

74

26

38

Question 5

In a school, 70 students are taking classes. 35 of them will be taking Accounting and 20 of them will be taking Economics. 7 of them are taking both of these classes. How many of the students are not in either class?

Possible Answers:

50

63

22

35

15

Question 6

There are 15,000 students at college X. Of those students, 1,700 are taking both ethics and metaphysics this semester. There are 2,200 total students taking ethics. 9,500 students are taking neither of these classes. How many students are taking metaphysics this term?

Possible Answers:

3300

5,000

1600

3800

Question 7

In a class of 100 students, 43 play basketball and 37 play baseball. 9 students play both. How many students do not play either sport?

Possible Answers:

29

20

71

38

Question 8

There are

400

students in a class.

50

of them take German and

150

take Latin. Some students take two languages. There are

230

students who take no language whatsoever. How many students are there who take at least one language?

Possible Answers:

70

130

170

30

200

Question 9

A jar contains 10 red marbles, 4 white marbles, and 2 blue marbles. Two are drawn in sequence, not replacing after each draw.

Quantity A

The probability of drawing two red marbles

Quantity B

The probability of drawing exactly one blue marble.

Possible Answers:

The quantities are equal.

The relationship cannot be determined from the information given.

Quantity B is greater.

Quantity A is greater.

Question 10

In a bowl containing 10 marbles, 5 are blue and 5 are pink. If 2 marbles are picked randomly, what is the probability that the 2 marbles will not both be pink?

Possible Answers:

$\frac{7}{9}$

$\frac{2}{9}$

$\frac{5}{6}$

$\frac{7}{8}$