A group of people were asked if they had run a red light in the last year. 327 responded "yes", and 155 responded "no".

Find the probability that if a person is chosen at random, they responded "yes".

Answer:

Give your answer as a decimal, rounded to the nearest thousandth.

Get help: Video

Show Answer 0.678

A card is drawn randomly from a standard 52-card deck. Find the probability of the given event. Write your answers as reduced fractions or whole numbers.

(a) The card drawn is 4

2

$$P(4) =$$
 Preview

(b) The card drawn is not 4

$$P(\text{not 4}) =$$
Preview

(c) The card drawn is a face card (Jack, Queen, or King)

$$P(\text{face card}) =$$
 Preview

(d) The card drawn is not a face card.

$$P(\text{not a face card}) =$$
 Preview

Get help: Video

Show Answer

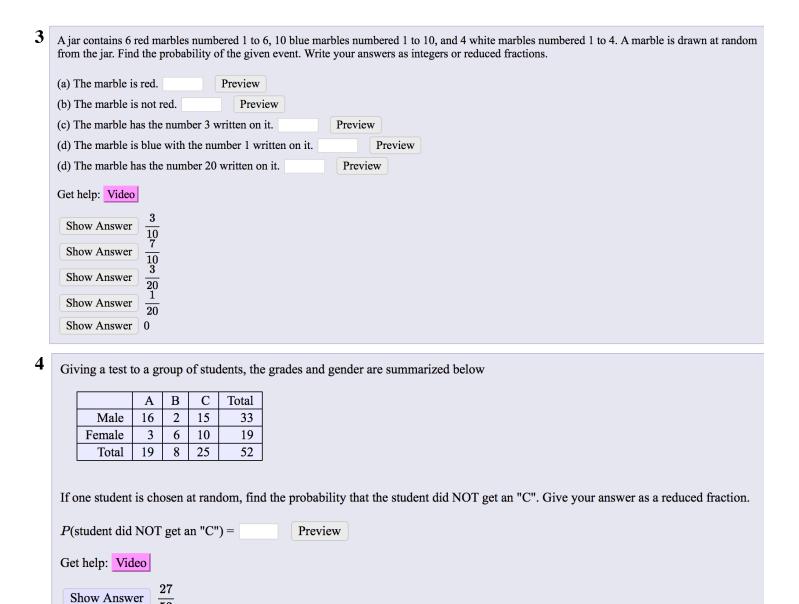
Show Answer

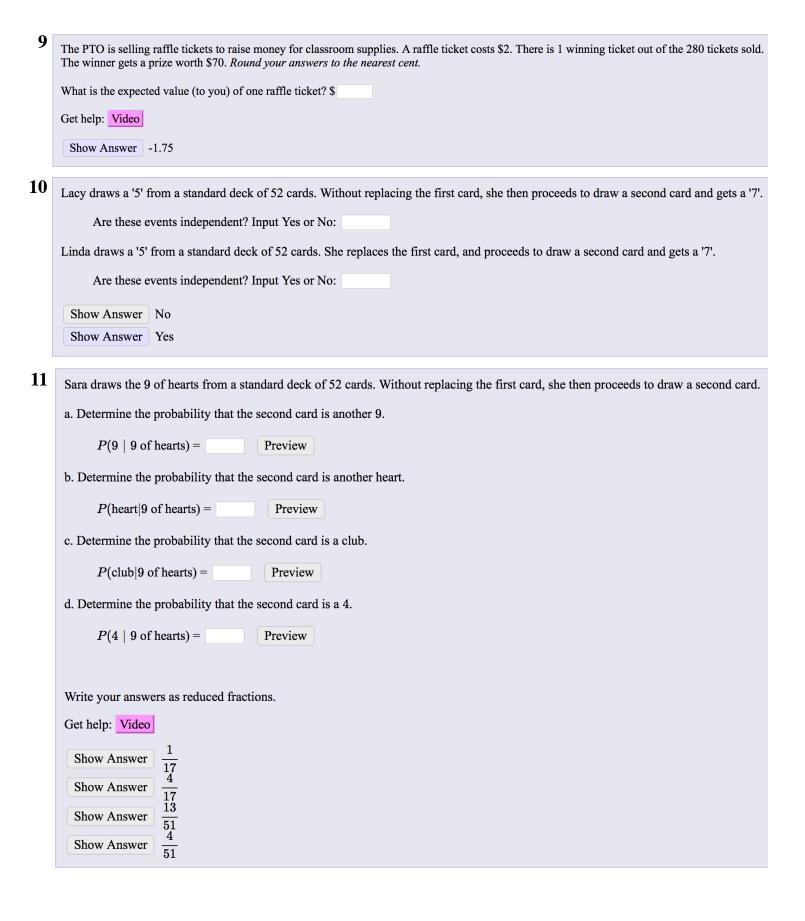
Show Answer

Show Answer

Show Answer

$$\frac{1}{13}$$
 $\frac{12}{13}$
 $\frac{3}{13}$
 $\frac{10}{12}$





12

A test was given to a group of students. The grades and gender are summarized below

	Α	В	С	Total
Male	5	12	15	32
Female	3	6	4	13
Total	8	18	19	45

If one student is chosen at random from those who took the test, find the probability that the student got a 'an 'A" GIVEN they are male. Write your answer as a reduced fraction.

 $P(A \mid male) =$

Preview

Get help: Video

Show Answer

13 Jenelle draws one from a standard deck of 52 cards.

> Determine the probability of drawing either a king or a two? Write your answer as a reduced fraction.

> > Answer =

Preview

Determine the probability of drawing either a king or a diamond? Write your answer as a reduced fraction.

Answer =

Preview

Get help: Video

Show Answer

Show Answer

14

Riley buys a bag of cookies that contains 9 chocolate chip cookies, 7 peanut butter cookies, 8 sugar cookies and 5 oatmeal cookies.

What is the probability that Riley reaches in the bag and randomly selects a chocolate chip cookie from the bag, eats it, then reaches back in the bag and randomly selects an oatmeal cookie? Write your answer as a percent. Round to the nearest tenth of a percent.

Answer:

%

Get help: Video

Show Answer 5.5

15

Giving a test to a group of students, the grades and gender are summarized below

	Α	В	C	Total
Male	13	4	3	20
Female	2	20	17	39
Total	15	24	20	59

If one student is chosen at random, find the probability that the student was female OR got an "C". Write your answer as a reduced fraction.

P(female or "C") = Preview

Get help: Video

Show Answer 42

Juan owns 7 pairs of pants, 1 shirts, 5 ties, and 4 jackets. How many different outfits can he wear to school if he must wear one of each item?

He can wear different outfits.

Get help: Video

Show Answer 140

You are taking a quiz that has 8 multiple-choice questions. If each question has 6 possible answers, how many different ways are there to answer the test?

There are different ways to answer the test.

Get help: Video

Show Answer 1679616

18 Standard automobile license plates in a country display 2 numbers, followed by 2 letters, followed by 3 numbers. How many different standard plates are possible in this system? (Assume repetitions of letters and numbers are allowed.)

There are different standard plates possible in this system.

Get help: Video

Show Answer 67600000

19 What is the probability that if 4 letters are typed, no letters are repeated? Write your answer in decimal form, rounded to the nearest thousandth.

The probability that no letters are repeated is

Show Answer 0.785

In a lottery daily game, a player picks three numbers from 0 to 9 (without repetition). How many different choices does the player have

a) If order matters?

b) If order *does not* matter?

Get help: Video Video

Show Answer 720

Show Answer 120