Thirty fans of reality TV were asked to rate four shows, and the data below reflect which one each rated highest. Construct a frequency distribution for the data. (S = Survivor,

D = Dancing with the Stars

, B = Big Brother, A = The Amazing Race.)

S S D B A

A S B S S

S S D D S

B A A A B

B D S D B

S D B A A

Show Frequency

S \_\_\_\_\_\_

D \_\_\_\_\_\_\_

B \_\_\_\_\_\_\_\_

A \_\_\_\_\_\_\_\_\_\_

How many ways can a student pick five questions from an exam containing eleven questions?

Out of 560 applicants to a graduate program at an Ivy League school, Marissa's GRE score was in the 50th percentile. How many applicants scored lower than she did?

Out of the 560 applicants,\_\_\_\_\_\_\_\_\_\_\_\_\_\_ applicant(s) scored lower than Marissa

Find the missing value. Round your answer to the nearest cent.

Principal Rate Time Simple Interest

$3,800 3.6 % 1 ½ years $\_\_\_\_\_\_\_

Assume the data set described is normally distributed with the given mean and standard deviation, and with n total values. Find the approximate number of data values that will fall in the given range.

Mean = 80

Standard deviation = 9

n = 180

Range: 62 to 98

In this case, we expect about \_\_\_\_\_ data values to fall between 62 and 98.

These data are the number of junk e-mails Lena received for 9 consecutive days.

59 3 3 7 6 32 18 5 9

Find the range, variance, and standard deviation. Round the variance to one decimal place and the standard deviation to two decimal places, if necessary.

Part 1 out of 3

The range is \_\_\_\_\_\_\_e-mails.

A radio DJ is contractually obligated to run a commercial for Pepsi six times, a commercial for a local law firm twice, and a new promo for the station once per hour. In how many different ways can he do this?

The DJ can run the commercials in \_\_\_\_\_\_\_\_ different ways.

Find the area under the standard normal distribution curve between z = 0 and z = 0.45. Refer to the table of values Area Under the Standard Normal Distribution as needed.

The area between z = 0 and z = 0.45 is

As an experiment in a botany class, 20 plants are placed in a greenhouse, and their growth in centimeters after 20 days is recorded, with the results shown below. Construct a stem and leaf plot for the data.

22 14 12 9

54 12 16 12

14 49 10 14

8 21 37 28

36 22 9 33

Arrange the leaves in order from smallest to largest. Do not separate the answers with a comma.

Stems Leaves

0

1

2

3

4

5

The average time a person spends in each visit to an online social networking service is

66 minutes.

The standard deviation is 15 minutes. If a visitor is selected at random, find the probability that he or she will spend the time shown on the networking service. Assume the times are normally distributed.

Refer to the table of values (Area Under the Standard Normal Distribution ) as needed. If necessary, round intermediate calculations to the nearest hundredth.

Part 1 out of 2

(a) At least 156 minutes

The probability that a randomly selected visitor spends at least 156 minutes per visit is \_\_\_\_ %.

How many ways can 2 cars and 3 trucks be selected from 10 cars and 9 trucks to be tested for a safety inspection?

There are \_\_\_\_\_ ways to select the cars and trucks for the safety inspection

The average cost for two people to go to a movie is

$18.

The standard deviation is $4.

Assume the cost is normally distributed. Find the probability that at any given theater, the cost will be more than $20 for two people to go to the movie.

Refer to the table of values (Area Under the Standard Normal Distribution) as needed. If necessary, round intermediate calculations to the nearest hundredth.

The probability that at any given theater, the cost will be more than $20 for two people to go to a movie is \_\_\_\_\_ %.

Evaluate.

11P2 =