

The population standard deviation for the height of college basketball players is 3.4 inches. If we want to estimate 99% confidence interval for the population mean height of these players with a 0.43 margin of error, how many randomly selected players must be surveyed? (Round up your answer to nearest whole number) Answer:

415 players were randomly selected for the survey.

$$C = 99\% = 0.99$$

$$\alpha = 1 - C = 1 - 0.99 = 0.01$$

$$\alpha/2 = 0.005$$

The z score of $\alpha/2$ equals to the z score of 0.495 (0.5 - 0.005) which is equal to 2.576

Given that the margin of error $E = 0.43$, and the standard deviation (σ) = 3.4, hence:

Hence 415 players were randomly selected for the survey.

Find out more at: brainly.com/question/15016913

Answer:

416

Step-by-step explanation:

Given that the population standard deviation for the height of college basketball players is 3.4 inches

For 99% confidence interval since sigma (population standard deviation) is known we can use Z critical value for 99% confidence

Z critical value = 2.58

Margin of error = 0.43 = 2.58 * std error

So std error of sample mean =

Std error is nothing but population std dev/square root of sample size

i.e.

n should be at least 416

What is $-\frac{2}{3} + -\frac{4}{6}$?

Brainliest gets 30 points

Santa fe trail where was it located

How did Hershey and Chase "label" viral DNA and viral protein so that they could be distinguished? Explain why they chose each radioactive tag in light of the chemical composition of DNA and protein.

Long lasting civil wars throughout Africa have prevented governments from properly addressing what crisis? natural disasters gender equality education famine

Five more than twice a number is 33

Decide whether each group of words is an independent clause, a dependent clause, or not a clause. the smell of the muffins in the oven

because I lost my gloves

she served the volleyball over the net

In the locket by kate chopin, who finds the locket and returns it to octavie?

$Z \div 4 - 8z + 2(z - 5)$ when $z = 12$

The measure of an interior angle of a regular polygon is 156 find the number of sides in the polygon

If you were asked to give only 1 word that describes the following (NO PAIN, NO GAIN) . What would you say ?

The covariance between the returns on two assets is negative. This occurs when Group of answer choices the standard deviation of one asset has a positive linear relationship with the standard deviation of the other

asset the variance of one asset has a negative linear relationship with the variance of the other asset on average,

the return on one asset increases while the return on the other asset decreases on average,

the return on one asset decreases while the return on the other asset also decreases

The Adventures of Tom Sawyer What trait helps Tom convince the other boys to whitewash Aunt Polly's fence for him?

A. his cleverness B. his courage C. his honesty D. his sense of humor

In the game of roulette, a wheel consists of 38 slots numbered 00, 0, 1, 2, ..., 36. To play the game, a metal ball is spun around the wheel and is allowed to fall into one of the numbered slots. Complete parts (a) through (c).

a) What is the sample space?

b) Determine the probability the metal ball falls into the slot marked 7.

c) What is the probability the ball lands in an "odd" slot?

d) Interpret this probability: $\frac{27}{38} = 0.7105$...

Just a simple linear equation:

$$7 - 3x = 13 + 2x$$

Multiple Choice: Please select the best answer and click "submit." ¿Cómo se dice "I do not like French class" en español? A. Tampoco me gusta la clase de francés. B. Me gusta la clase de francés. C. Nunca me gusta la clase de francés. D. No me gusta la clase de francés.

$$5x + 2y = 43 ; -6x + 3y = -30$$

Which of the following are common design elements found in Persian carpets?

Brainy how did Louis IX of France strengthen royal power? select all that apply.

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