

**Mathematics achievement test scores for 300 students were found to have a mean and a variance equal to 600 and 3600, respectively. (a) If the distribution of test scores was mound-shaped, approximately how many of the scores would fall into the interval 540 to 660? (Round your answer to the nearest whole number.)**

**(b) Approximately how many scores would be expected to fall into the interval 480 to 720? (Round your answer to the nearest whole number.)**

Answer:

(a) Approximately 205 students scored between 540 and 660.

(b) Approximately 287 students scored between 480 and 720.

Step-by-step explanation:

A mound-shaped distribution is a normal distribution since the shape of a normal curve is mound-shaped.

Let  $X$  = test score of a student.

It is provided that .

(a)

The probability of scores between 540 and 660 as follows:

Use the standard normal table for the probabilities.

The number of students who scored between 540 and 660 is:

$$300 \times 0.6826 = 204.78 \approx 205$$

Thus, approximately 205 students scored between 540 and 660.

(b)

The probability of scores between 480 and 720 as follows:

Use the standard normal table for the probabilities.

The number of students who scored between 480 and 720 is:

$$300 \times 0.9544 = 286.32 \approx 287$$

Thus, approximately 287 students scored between 480 and 720.

Whole animal cloning puts a nucleus from a cell of one animal into A. the chromosome of a bacterium. B. the plasmid of a bacterium. C. an egg cell from another animal. D. a sperm cell from another animal.

reflection symmetry is the quality a design has if it maintains all characteristics when it is rotated about an axis lying in its plane true or false

57) In which form of government is significant power given to smaller units Of government within the State?

A) federal State

B) confederate State

C) organic State

D) democratic State

E) unitary State

One major reason that president monroe issued the "monroe doctrine" was to

Which natural resource was a major contributor to Britain's industrial revolution? turnpikes

coal

steam engine

shipping

To have a prejudice against a person is to judge them before you know them. True False

Can a human male be a carrier of red-green color blindness?

Read the excerpt from act 4, scene 3, of The Tragedy of Julius Caesar. [BRUTUS.] Messala, I have here received letters,

That young Octavius and Mark Antony

Come down upon us. . . .

MESSALA. Myself have letters of the selfsame tenor.

BRUTUS. With what addition?

MESSALA. That by proscription and bills of outlawry,

Octavius, Antony, and Lepidus

Have put to death an hundred senators.

BRUTUS. Therein our letters do not well agree.

Mine speak of seventy senators that died

By their proscriptions, Cicero being one.

CASSIUS. Cicero one!

MESSALA. Ay, Cicero is dead,

And by that order of proscription.

What is the central idea of this excerpt?

the impact of fate

the extent of loyalty

the ruthlessness of power

the importance of compromise

What primary argument is Wilberforce making for the abolition of the slave trade in this passage?

Which of the following is a synonym/antonym analogy? A.

altar : cathedral :: desk : office

B.

scratch : wound :: crack : fissure

C.

grow : seedling :: doodle : sketch

D.

assemble : dismantle :: absorb : expel

What are the impacts of feudalism on Europe?

Write an equation for the  $n$ th term of the geometric sequence. Then find the 7th term. 2, -6, 18, -54, ...

Joanna studied hard for her final exams. But she still didn't earn a high enough score to be one of the five best students in her class. She has been feeling depressed about it. She has no motivation to study. She decides to see the guidance counselor at her school for advice. What should the counselor say to her?

A. Your goals were too high, so obviously you were disappointed. Aim lower the next time.

B. Don't compare your score with others' scores. Compete with yourself and try to improve on your earlier score.

C. Maybe you should drop the subjects you are having trouble with so you can keep up a good grade point average.

What is an example of the kind of discrimination successfully ended by efforts of The National Organization for Women (NOW)?

A biohazard is an agent of biological origin that has the capacity to produce deleterious effects on humans, i.e. microorganisms, toxins and allergens derived from those organisms; and allergens and toxins derived from higher plants and animals. a. True

b. False

A Hindu festival called Maha Shivaratri honors the god Shiva by celebrating the night he was believed to have danced a cosmic dance of destruction. Which of the following are likely NOT true? While there are some similarities between how festivals are celebrated, they often vary between regions and schools of Hinduism.

Shiva's role has traditionally been to preserve and protect the world.

The festival is celebrated the same way all around India.

The festival is celebrated the same way all around the world.

The middle colonies were more tolerant than the New England and southern colonies, and were therefore more A. economically stable.

B. ethnically diverse.

C. staunchly religious.

D. politically unstable.

Divide. Use place value disks to model each problem. 346 divided by 2

1. [Home](#)

## 2. [More Solution](#)