

After an RNA molecule is transcribed from a eukaryotic gene, portions called _____ are removed and the remaining _____ are spliced together to produce an mRNA molecule with a continuous coding sequence.

a. operators ... promoters
b. exons ... introns
c. introns ... exons
d. silencers ... enhancers
e. promoters ... operators

Answer: Portions called introns are removed and the remaining exons are spliced together

Explanation:

The messenger RNA obtained after transcription is known as primary transcribed RNA or precursor RNA, and it has to undergo modifications before exerting its function. This is called RNA processing or maturation.

In the DNA sequence, the coding content of a gene is not continuously distributed along the gene, but has discontinuities, called introns, whose sequence does not encode proteins. The parts of the sequence that encode proteins are called exons. Through a process called splicing (which is one of the modification that are part of the RNA maturation), the introns are eliminated and the exons are joined forming a mature messenger RNA molecule that will be used for protein synthesis.

So the exons are part of the region of a gene that is not separated during the cutting and splicing process and is therefore kept in the mature messenger RNA. Each exon codes a specific portion of the entire protein, so that the set of exons forms the coding region of the gene.

Rema spent 6 days reading her book, completing the same fraction of the book each day, if she read a total of $\frac{8}{9}$ of her book after 6 days, what fraction of the book did she read each day?

A sled and rider, gliding over horizontal, frictionless ice at 4.3 m/s , have a combined mass of 74 kg . The sled then slides over a rough spot in the ice, slowing down to 2.9 m/s . Part a) What impulse was delivered to the sled by the friction force from the rough spot?

If electrical energy costs 12 cents, or \$0.12, per kilowatt-hour, then what would the following events cost? (a) burning a 120 W light bulb for 24 h straight (b) operating an electric oven for 7.0 h if it carries a current of 20.0 A at 220 V

Carolina: El Museo del Prado es uno de los museos más _____ de España. Diego: ¡Estupendo! Esto quiere decir que tiene muchos cuadros y obras de arte.

How many solutions are there to the following system of equations? $3x-9y=0$, $-x+3y=-3$

What kind of vitamins should i take on the depo shot?

A gene for eye color in an island fly species has two alleles: the dominant allele codes for blue eyes, and the recessive allele codes for green eyes. If genetic drift is the only force that changes allele frequencies in a fly population, what is expected to happen to the blue and green eye allele frequencies in the population?

If a negative charge is placed in an electric field, what direction will it be accelerated? a) In the direction of the field. b) In the opposite direction of the field.

c) Perpendicular to the direction of the field.

d) It will not be accelerated.

e) None of the above.

Who may give opinions concerning the status or validity of title to real estate?

Bethany sells roses and petunias. The expression $3r+2.5p$ gives the cost (in dollars) of r roses and p petunias. What is the cost of 7 roses and 8 petunias?

When using a calorimeter, the initial temperature of a metal is 70.4°C . The initial temperature of the water is 23.6°C . At the end of the experiment, the final equilibrium temperature of the water is 29.8°C . What is the final temperature of the metal?

C

What is the temperature change of the water?

C

What is the temperature change of the metal?

C

Information from pictures may be processed into the brain through the _____ sense.

Explain what Anne frank means when she says Things are just as bad as you yourself care to make them

Melinda is running in gym class. She has 45 minutes and needs to run 6 miles. Write and solve an inequality to find the amount of time she can spend running each mile.

The number of days' sales in receivables is determined by dividing a.average accounts receivable by average daily sales. b.average accounts receivable by sales. c.the number of days in a year by accounts receivable. d.None of these choices are correct.

Which statements about the Peale family or their paintings are true? Choose all answers that are correct.

A.

Their paintings are representational with many details.

B.

Charles Willson Peale was an artist, scientist, inventor, and soldier.

C.

Many of their paintings are landscapes or images from dreams and the imagination.

D.

The Peale family has been called the First Family of American Painting.

The height of a man is 1.7 m what is this height in centimeter

WILL MARK BRANLIEST! Much of the water that falls on the ground as precipitation

- a) enters the ground through the process of infiltration
- b) evaporates back into the atmosphere
- c) becomes runoff and finds its way back to the ocean
- d) forms small pools

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