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QUESTION 1

Which of these sentences contains a dependent clause?

- A. Although she is hungry, she is not going to eat.
- B. She told me she was hungry but wouldn't eat more.
- C. She is hungry but she's not going to eat.
- D. She said she is feeling hungry, but she is not going to eat.

Correct Answer: A

QUESTION 2

What is $33.31 - 5.78$?

- A. 39.09
- B. 27.53
- C. 28.47
- D. 27.35

Correct Answer: B

QUESTION 3



A nanometer is a billionth of a meter. A DNA molecule is 2 nanometers in diameter. Protein molecules are about 10 nanometers in diameter. A human hair is 100,000 nanometers in diameter. But what is a nanometer and how does it relate to technology? Nanotechnology is defined as the understanding and control of matter at dimensions of roughly 1 to 100 nanometers, a scale at which unique properties of materials emerge that can be used to develop novel technologies and products. At the nanoscale, the physical, chemical, and biological properties of materials differ from the properties of matter either at smaller scales, such as atoms, or at larger scales that we use in everyday life such as millimeters or inches. Nanotechnology involves imaging, measuring, modeling, and manipulating matter only a few nanometers in size. Gold nanoparticles are made of the same material as in jewelry. But when light interacts with particles of gold, different colors are reflected. The different colors can be used in simple medical tests to indicate infection or disease. Metals such as copper become extremely rigid at the nanoscale, rather than bendable as in copper wires seen in everyday use.

What is the major difference between matter at the nanoscale and matter at larger scales such as millimeters or inches?

- A. At the nanoscale, metals are bendable, and at larger scales they are rigid.
- B. Matter has different and special characteristics at the nanoscale.
- C. At the nanoscale, matter has the same properties as matter at the atomic level.
- D. There is no difference.

Correct Answer: B

QUESTION 4

Select the correct word(s) for the blank in the following sentence. _____ went to the movies last weekend.

- A. She and I
- B. She and me



C. Her and I D. Her and me

Correct Answer: A

QUESTION 5

What is not a direct function of the kidney?

- A. regulate O₂ levels in the blood
- B. regulate blood volume
- C. regulate blood pressure
- D. regulate pH

Correct Answer: A

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