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QUESTION 1

If $y = x^2 + 6x - 7$, what is the value of x?

(1) x is a positive integer.

(2) $y^2 = y$

A. Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

B. Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE Is sufficient.

D. EACH statement ALONE is sufficient

E. Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer: C

QUESTION 2

Machine X caps 20 bottles of soda per minute, and machine Y caps 60 bottles of soda per minute. If both machines start operating at the same time and at their respective constant rates, in how many seconds will machine Y have capped 12 more bottles of soda than machine X ?

A. 15

B. 18

C. 20

D. 21

E. 24

Correct Answer: B

QUESTION 3

The author of the passage most clearly agrees with the claim that the ancestor of all Indo-European languages A. transmitted some of its vocabulary to a language ancestral to Finnish

B. split into its daughter languages no more than 5,500 years ago

C. probably spread from Anatolia to the steppes north of the Black Sea

D. probably originated before chariots and wagons were invented

E. had the same word for "bee" as some of its daughter languages have

Correct Answer: A

The following is based on an article published in 2012. Most linguists believe proto-Indo- European, the ancestor of all Indo-European languages, was the language of chariot-driving pastoralists who spread through Eurasia from steppes north of the Black Sea about 4,000 years ago. But a competing theory is that proto-Indo-European was spoken by farmers in Anatolia (Asia Minor) about 9,000 years ago, and spread from there along with agriculture. To evaluate these hypotheses, researchers statistically compared IndoEuropean languages\\' vocabularies. Languages with more similar vocabularies are probably more closely related, sharing more recent common ancestors. Combining the vocabulary statistics with the known dates when certain languages split, and with their known geographical ranges, a computer calculated the most likely relationships among all Indo-European languages and concluded that protoIndo- European probably originated in Anatolia 9,000 years ago. Disputing this conclusion, skeptics argue that most Indo-European languages are similar in their words pertaining to chariots and wagons, suggesting protoIndo- European split into daughter languages only after chariots and wagons were invented. No archaeological evidence indicates that chariots and wagons existed before 5,500 years ago. Furthermore, proto-Indo-European had words for "horse" and "bee" and lent many words to proto-Uralic, the mother language of Finnish and Hungarian. The steppes north of the Black Sea were far closer than Anatolia to areas where proto-Uralic was spoken, and had more abundant wild horses and bees.

QUESTION 4

Which of the following is the most likely reason that the author mentions the work o* the astronomers in 1998 (see highlighted text)?

A. To counter the common view among astronomers in 1998 that no planets orbited around HR 8799

B. To show that Earth based telescopes are generally more accurate than is the Hubble telescope

C. To help explain why scientists felt it necessary to archive the Hubble images of HR8799

D. To highlight the potential value that the new technique could have for Researchers

E. To emphasize mistakes researchers made in 1998 when examining the Hubble images of HR 8799

Correct Answer: D

Previously unknown extrasolar planets-planets outside our solar system-- probably await discovery In archival images taken by the Hubble Space Telescope. A new technique allows astronomers to model the amount and distribution of scattered light produced by young stars suspected of spawning planets and remove that light from images of those stars. Once the glare of the parent stars\\' light is removed, planets may show up In Images already taken by Hubble\\'s infrared cameras, since heat emitted by planets produces telltale wavelengths of infrared light. In 2008, astronomers using powerful Earth-based telescopes were able to detect three planets orbiting the star HR 8799 that were not previously detected by astronomers who examined infrared Hubble images of the star in 1998. David Lafrentere--a member of the team of astronomers who detected the planets in 2006 --then applied the new technique to those Hubble images and managed to uncover the outermost of the three planets. The others, tying closer to the star, still could not be distinguished against the background of the star\\'s light. Lafrenifre\\'s work has helped reaffirm the importance of maintaining long-term archives, and--because Hubble\\'s infrared cameras record some wavelengths of light that cannot penetrate through the atmosphere to reach Earth\\'s surface- revealed new information about the outermost of HR 8799\\'s planets.

QUESTION 5

In the xy-plane, circle C is centered at the origin and has radius 1, and line k has equation y= x. Which of the following are the coordinates of a point that lies on circle C and line k?

A. $(\sqrt{2},\sqrt{2})$

B. $(1,1)$

C. $\left(\frac{\sqrt{2}}{2},\frac{\sqrt{2}}{2}\right)$

D. $\left(\frac{1}{2},\frac{1}{2}\right)$

E. $\left(-\frac{\sqrt{2}}{2},\frac{\sqrt{2}}{2}\right)$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: C