



MINI COURSE

Ace The SAT/ACT

READING PASSAGES (C.O.A.T.)

The following passage is an excerpt from John Kappler’s memoirs about growing up poor in rural Kentucky during the Dust Bowl.

1. This passage serves mainly to...

- (A) Explain John’s elite status to his family.
- (B) Proclaim how the Dust Bowl didn’t affect the South.
- (C) Refute how difficult times were in the 1920’s.
- (D) Recount John’s life growing up

John Isaac Hawkins created the first “polygraph” machine so that draftsman could reduce or enlarge their drawings. The hand of the writer would move one pen and a second pen would duplicate the words or image on another paper.

2. Why did John Isaac Hawkins invent the polygraph?

- (A) He wanted to open the first copy shop.
- (B) Local draftsmen were demanding a new system
- (C) To increase customization and productivity
- (D) Modifying pictures was already a fast process

VOCABULARY USE (Positive/Negative Words)

Line 16. Despite the singer’s perplexing use of lyrics, her overall tone was actually lucid.

3. What does the word “lucid” most nearly mean in Line 16?

- A) imperceptible
- B) clear
- C) difficult
- D) troublesome

Line 28. The photographer was initially shocked to find out that his negatives were destroyed at the print shop.

4. What does the word “shocked” most nearly mean in line 28?

- A) elated
 - B) infringe
 - C) consternated
 - D) violated
-

READING QUESTIONS (S.O.N.)

The passage is an excerpt from Dr. Robinson’s article, “Boys Will be Boys”—a study about the differences between boys and girls.

5. What irrefutable fact does the author prove in his argument?

- A) Boys are always better in basketball than girls.
- B) There are at least 6000 physical and psychological differences between boys and girls.
- C) No girl wanted to work in construction.
- D) None of the boys believed that girls can be tougher than the male species.

The passage is about Defensive Driving as it pertains to the dangers of driving in inclement weather, especially where rain is scarce.

6. What does the first paragraph mainly serve to do?

- A) Show how it never rains in the big city.
 - B) Proclaim that none of the drivers knew how to control a vehicle on ice.
 - C) Highlight the statistics that show that exactly one-third of rush-hour traffic drivers will have a wreck in their lifetime.
 - D) The morning news usually warns commuters to stay home when precipitation is in the air and it’s below freezing.
-



MATH QUESTIONS (Last Digits)

1. A four-digit number is divisible by 3 and when 10 is subtracted is divisible by 7 but not 5.

- A) 9650
- B) 9735
- C) 9989
- D) 9999

2. Please find the correct answer. $\begin{array}{r} 64896 \\ 208 \end{array}$

- A) 312
 - B) 313
 - C) 314
 - D) 315
-

MATH QUESTIONS (Clone Invasion)

3. For all nonzero real numbers r , s , a and b such that $\frac{a}{b} = \frac{5r}{4s}$ which of the following expressions is equivalent to s ?

- F. $\frac{b}{4}$
 - G. $\frac{5ra}{4b}$
 - H. $\frac{8rb}{a}$
 - J. $\frac{5rb}{a}$
 - K. $\frac{5rb}{4a}$
-

4. The chart below summarizes the results of 200 college graduates who took the nursing exam. If one of the surveyed graduates who passed the exam is chosen at random for an interview, what is the probability that the person chosen did not take the prep course?

Results on the Nursing Exam of College Graduates

	Passed Nursing Exam	Did Not Pass Nursing Exam
TOOK PREP COURSE	19	81
DID NOT TAKE PREP COURSE	6	94

- A) $\frac{19}{25}$
 - B) $\frac{6}{25}$
 - C) $\frac{25}{100}$
 - D) $\frac{6}{200}$
-

MATH QUESTIONS (Asking What?)

5. How many different integers n will make the following statement true?

$$6 < 4n < 10$$

- (A) one
- (B) two
- (C) three
- (D) four

6. What is the least positive integer divisible by the integers by 2, 3, 6 and 9 ?

- (A) 162
 - (B) 81
 - (C) 54
 - (D) 36
-

WRITING QUESTIONS (Think Vertically)

Humans have a physiological cycle that is controlled by the **1** bodies autonomic processes, which mainly influences blood pressure and the heart rate.

- 1. A) NO CHANGE
- B) body's autonomic processes,
- C) bodies' autonomic processes',
- D) body's autonomic processes

We were astounded when we visited the dump in Alaska. Next to the buzzards feeding on the trash were hordes of **2** eagles, their majesty didn't seem as regal as I always imagined them.

- 2. A) NO CHANGE
 - B) eagles. Their majesty didn't seem as regal
 - C) eagles, their majesty didn't seem, as regal
 - D) eagles. Their majesty, didn't seem as regal,
-

WRITING QUESTIONS (Having, "-ing" Words)

The right to protect ourselves is covered under the Second Amendment. The United States Constitution **3** having guaranteeing its citizens the right to bear arms.

- 3. A) NO CHANGE
- B) being guaranteed
- C) that having guaranteed
- D) guarantees



Kramer and Kurth caution, however, that ⁴ having more solar fields and wind farms will not automatically solve the problem of gasoline emissions in the air.

4. A) NO CHANGE
B) increasing the opposite types of fossil fuel
C) an increase in solar fields and wind farms
D) having more solar fields and wind farms than other countries
-

WRITING QUESTIONS (Notwithstanding Words Defined)

There are several current breakthroughs that are showing great promise for Alzheimer's patients. For instance, near infrared light treatments that penetrate through cranial probes and ⁵ notwithstanding nasal applications.

5. A) NO CHANGE
B) However
C) Nevertheless
D) Likewise

We exchanged a shouting match with the neighbor boys. My innocent little sister climbed the fence to see what was going on and ⁶ furthermore was hit in the head with a rock.

6. A) NO CHANGE
B) moreover
C) therefore
D) finally
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SCIENCE

1. Based on the information in Scientist 1's view which of the following materials must be present on Europa if a magnetic field is to be generated on Europa?
- F. Frozen nitrogen
G. Water ice
H. Dissolved salts
J. Molten magma



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- Scientist 1 { Jupiter's magnetic field, sweeping past Europa, would interact with the salty, deep ocean and produce a second magnetic field around Europa. The spacecraft has found evidence of this second magnetic field.
2. Assume Scientist 2's view about the similarities between Europa's surface features and flowing glaciers on Earth is correct. Based on this assumption and the information provided, Earth's glaciers would be *least* likely to exhibit which of the following features?
- A. Pressure ridges
 - B. Cracks
 - C. Meteorite craters
 - D. Dark bands

Scientist 2 { Many of the features on Europa's surface resemble features created by flowing glaciers on Earth. Large amounts of liquid water are not required for the creation of these features. If a thin layer of ice below the surface is much warmer than the surface ice, it may be able to flow and cause cracking and movement of the surface ice. Few meteorite craters are observed because of Europa's very thin atmosphere, surface ice continually *sublimes* (changes from solid to gas)...

Source: ACT.org

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