

# simplifying **LCAT Sample Paper**



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## SECTION A: MATHEMATICS

**Directions:** While solving problems you can use any available space on the page for scratch work. For each question in this section, read the five choices marked (A), (B), (C), (D) and (E) in your test book. Select the letter of the choice which you consider is the correct answer. Then fill in the corresponding circle on your answer sheet.

**Numbers:** All numbers used are real numbers.

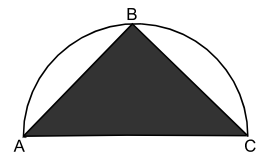
**Figures:** Figures that accompany problems are intended to provide information useful in solving the problems. The figures may not be drawn to scale, and measurements from the figures may be misleading. All figures lie in a plane unless otherwise indicated.

### Sample Questions:

1. One half of the employees of Saleem & Co. earn salaries above \$18,000 annually. One third of the remainder earns salaries between \$15,000 and \$18,000. What part of the staff earns below \$15,000?
- A.  $\frac{2}{5}$   
B.  $\frac{1}{3}$   
C.  $\frac{3}{4}$   
D.  $\frac{1}{6}$

2. If it takes 4 days for 3 machines to do a certain job, how many days are required to complete the job by two machines?
- A. 6 days  
B.  $5\frac{1}{2}$  days  
C. 5 days  
D.  $4\frac{1}{2}$  days

1. Triangle ABC is inscribed in a semicircle. AB is  $2\sqrt{2}$ , AB = BC What is the area of the unshaded region



- A.  $2\pi - 2$   
B.  $4\pi - 4$   
C.  $8\pi - 4$   
D.  $2\pi - 4$

**Answers:** 1. B 2. A 3. D

## SECTION B: VERBAL

### A. Sentence Completion

**Directions:** For each question in this sub-section select the letter corresponding to the **word or pair of words** from the given choices which **best completes** the sentence. Then fill in the corresponding oval on your answer sheet.

#### Sample Questions:

1. He knew everything better than anybody else, and it was an affront to his \_\_\_\_\_ vanity that you should disagree with him.  
A. overwrought  
B. overwhelming  
C. overweening  
D. over strung
2. The court of conscience \_\_\_\_\_ all other courts.  
A. surpasses  
B. excels  
C. supercedes  
D. trespasses
3. The resulting of his probing was \_\_\_\_\_ evidence all pointing to a serious treachery.  
A. incriminating  
B. dangerous  
C. frivolous  
D. intimidatory
4. His \_\_\_\_\_ income does not allow him to buy a new scooter.  
A. small  
B. meager  
C. spare  
D. scarce

**Answers:** 1. D 2. C 3. A 4. B

## B. Passage Comprehension

**Directions:** Each passage in this section is followed by questions based on its content. After reading a passage, choose the best answer to each question from the five choices marked (A), (B), (C), (D) and (E). Then fill in the corresponding oval on your answer sheet.

### Sample Questions:

Drug and cosmetics companies spend millions of dollars each year to develop new products. They also spend millions of dollars on testing the new products. They test them to make sure that they're safe for humans to use. But the ways in which new products are tested have come under attack from some people.

Each year, drug and cosmetics companies the U.S. use millions of live animals to test their products. Scientists who work for the companies say that they must use live animals. They claim that the only way to test the safety of a product is to test it on living animals. On the other hand, some people feel that the tests are cruel to the animals and needlessly painful. They point to two tests in particular ----the Draize test and the LD 50 test.

In the Draize test, six live rabbits are used for each test. The substance that is being tested is put into one eye of each rabbit. The eye is left alone. Scientists look for changes in the eye that was treated with the substance. Any change in that eye is assumed to be caused by the substance. This test can make the rabbit go blind or die.

The LD 50 test is used to find out how poisonous a substance is. "LD" stands for "Lethal Dose." In this test, increasing doses of the substance are injected into a group of animals until half of the animals die.

Scientists use the information from the Draize test and the LD 50 test to figure out if a product is safe for humans to use. They feel that they can save human lives with the information that they get. They say that the only sure way to test product is with living animals. Any other kind of test may not give them the information they need.

### Questions

1. The main idea of this passage is that testing using live animals
  - (a) Should be stopped
  - (b) is necessary to save human lives
  - (c) is a widespread practice that coming under attack
  - (d) costs million of dollars
2. According to the passage, what happens to rabbits in the Draize test?
  - (a) They are injected with a toxic substance.
  - (b) They have chemicals put in their eyes.
  - (c) Their skin is treated with chemicals.
  - (d) Blood is taken from them.

**Answers:** 1. B 2. B

## C. Sentence Correction

**Directions:** The following sentences describe the same event. Select the most grammatically correct choice. Choose the best answer to each question from the five choices marked (A), (B), (C), (D) and (E). Then fill in the corresponding oval on your answer sheet.

### Sample Questions:

1. The only way for growers to salvage frozen citrus is to process them quickly into juice concentrate before they rot when warmer weather returns.
  - A. to process them quickly into juice concentrate before they rot when warmer weather returns
  - B. if they are quickly processed into juice concentrate before warmer weather returns to rot them
  - C. for them to be processed quickly into juice concentrate before the fruit rots when warmer weather returns
  - D. if the fruit is quickly processed into juice concentrate before they rot when warmer weather returns
  - E. to have it quickly processed into juice concentrate before warmer weather returns and rots the fruit
  
2. The end of the eighteenth century saw the emergence of prize stock breeding, with individual bulls and cows receiving awards, fetching unprecedented prices, and excited enormous interest whenever they were put on show.
  - A. excited
  - B. it excited
  - C. exciting
  - D. would excite
  - E. it had excited

**Answers:** 1. E 2. C