



# ISEE-TEST<sup>Q&As</sup>

Independent School Entrance Examination

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**QUESTION 1**

What can be inferred from the last three sentences?

1 When I was ten years old, my family and 21 racing to the beach to even notice. My father  
2 I drove to the New Jersey shore on an 22 eventually caught up to us and halted our  
3 exceptionally hot and sunny day during the 23 frenzied rush to the ocean.  
4 peak of summer. My father packed a huge 24 Finally, order was restored, and after we  
5 suitcase filled with towels, goggles, sunscreen, 25 had laid down the towels on the warm, soft  
6 extra bathing suits, and a mountain of beach 26 sand and my mother had finished carefully  
7 toys. From the size of the suitcase, one might 27 applying our sunscreen, we were free to jump  
8 have surmised that we were making a 28 in the ocean. I ran to the deep blue waves,  
9 permanent move to the shore, but in fact, we 29 which danced along the shoreline, with  
10 were only going for the afternoon. 30 boundless enthusiasm and vigor, until my  
11 Despite the hour of bickering that filled 31 father hollered to me in a deep baritone,  
12 the car ride, we were really all very excited to 32 "Sandra, what are you doing? You don't know  
13 spend the day on the beach. The instant my 33 how to swim! You'll drown!" Suddenly, the  
14 father parked the car and shut off the engine, 34 graceful twirls and ripples of the dancing  
15 my brother, sister, and I scrambled out of the 35 waves transformed into monstrous tidal  
16 car towards the ocean. I inhaled the crisp and 36 waves, thunderous crashes, and vicious roars.  
17 salty ocean air, and I immediately set my eyes 37 Without saying a word, I turned around and  
18 on the sand. My parents yelled at my siblings 38 immediately ran back to the safety of the dry  
19 and me, demanding that we slow down, but we 39 sand and into the arms of my mother.  
20 were too busy fighting over the beach toys and

- A. The narrator wanted to swim in the water, but she was afraid that her father would punish her if she did.
- B. The narrator decided that it would be more fun to make a sandcastle because the ocean water was too cold.
- C. The narrator's father was teasing her, because he knew that she is an excellent swimmer.
- D. The narrator forgot that she could not swim until her father reminded her.

Correct Answer: D

**QUESTION 2**

If the perimeter of a rectangle is 60 ft, which equation below can be used to determine the length of the rectangle? ( $P = 2l + 2w$ , where  $P$  = perimeter,  $l$  = length, and  $w$  = width.)

- A.  $l = 30 - w$
- B.  $l = 60 - w$
- C.  $l = w + 30$



D. / = w/60

Correct Answer: A

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### QUESTION 3

Select the word that best completes the sentence.

Built at great expense when the Roman Empire was economically dominant, the magnificent Pantheon stands as a reminder of Rome's \_\_\_\_\_.

- A. cunning
- B. location
- C. prosperity
- D. scenario

Correct Answer: C

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### QUESTION 4

Based on the passage, we can infer that extracts of medicinal plants generally: A. have stronger effects than the raw plants.



1 Modern chemistry can seem like a  
2 strange domain: mysterious chemicals are  
3 manipulated and produced in massive,  
4 expensive laboratories. Sometimes we even  
5 use the word “chemical” as though it means  
6 something artificial and dangerous — “Be sure  
7 to wash your apples thoroughly, to get the  
8 chemicals off!” It’s true that there might be  
9 some dangerous chemical pesticides on apples,  
10 but it turns out that apples themselves are also  
11 made of chemicals! Everything around us is  
12 made of chemicals, some natural and some  
13 synthetic. The practice of chemistry has a long  
14 history, beginning with the observations of  
15 simple chemical interactions with the natural  
16 world.

17 In the ancient world, as far back as the  
18 historical record extends, people made use of  
19 medicinal plants. This is not quite the practice  
20 of chemistry as we know it today: ancient  
21 peoples did not know why the plants they used  
22 worked as they did to treat pain, fever, or  
23 other maladies. But through a process of trial  
24 and error, they discovered many medicinal  
25 properties that would lay the groundwork for  
26 pharmaceutical chemistry. We can examine the  
27 case of willow bark, a raw plant substance that  
28 has the useful property of relieving pain. At  
29 first, people mostly chewed raw pieces of the  
30 bark to relieve aches and pains, a practice  
31 which continues today. Over time, simple  
32 herbal remedies were processed in many ways  
33 to create more potent medicines: extracts,  
34 tinctures, distillates.

35 By the 17th century, people gained a  
36 better understanding of chemical properties,  
37 and began to isolate chemical compounds. In  
38 the early 19th century, efforts to isolate the  
39 active compounds in willow bark yielded  
40 salicylic acid, the chemical that was  
41 responsible for the bark’s pain-relieving  
42 effects. Unfortunately, salicylic acid in its raw  
43 form was hard on the stomach, and for that  
44 reason wasn’t a practical medicine. But with  
45 the active compound discovered, and with  
46 advancing knowledge of chemistry, another  
47 step could be taken: salicylic acid was  
48 eventually combined with other chemicals to  
49 create a new synthetic chemical, acetylsalicylic  
50 acid, which retained its pain-relieving effects  
51 while being easier on the stomach. This  
52 became the drug which we now know as  
53 aspirin. Aspirin, like many other modern  
54 drugs, is produced in the laboratories of  
55 modern chemists using modern techniques,  
56 but its origins can be traced back to ancient  
57 herbal remedies.

B. require knowledge of modern chemistry to produce.

C. take a very long time to produce.

D. have to be taken in larger doses than raw plants.

Correct Answer: A

## QUESTION 5

The stem-and-leaf-plot below shows the scores students received on an English test.



Stem	Leaf
5	9
6	1 5 7 9
7	0 2 3 3 3 5 7
8	2 3 5 6 8
9	1 3 3 7

Column A

The median  
score on the  
test

Column B

The range of  
scores on the  
test

Compare the quantity in column A to the quantity in Column B.

- A. The quantity in Column A is greater.
- B. The quantity in Column B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Correct Answer: A

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#### QUESTION 6

If Figure 2 is a rectangle, then what is the value of  $x$ ?



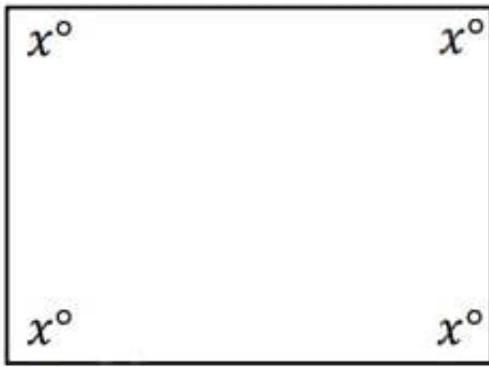


Figure 2

- A. 45
- B. 90
- C. 180
- D. 360

Correct Answer: B

#### QUESTION 7

Use the number line to answer the question.



What is the sum of A and B?

- A. 1.7
- B. 2.5
- C. 4.3
- D. 5.9

Correct Answer: D

#### QUESTION 8



$$1\frac{2}{3}$$

$$6\frac{1}{6}$$

Brendan tried to fill an empty vase with cups of water, but he accidentally spilled cups of water onto the floor. If he poured the rest of the water into the vase, how many cups of water ended up in the vase?

A.  $2\frac{2}{3}$

B.  $3\frac{1}{2}$

C.  $4\frac{1}{3}$

D.  $4\frac{1}{2}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

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#### QUESTION 9

If  $30 + m^{1/2} = 30$ , then what is  $30 \times m$ ?

A. 31

B. 30

C. 1

D. 0

If  $30 + m^{1/2} = 30$ , then what is  $30 \times m$ ?

A. 31



B. 30

C. 1

D. 0

Correct Answer: D

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#### QUESTION 10

Select the word that is most nearly the same in meaning as the word in capital letters.

HARMONIOUSLY

A. aggressively

B. slowly

C. cooperatively

D. strikingly

Correct Answer: C

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#### QUESTION 11

The passage suggests that: A. Oparin and Haldane\\'s theory is the only explanation left for how life could have begun.





1 How could life possibly have gotten 27 network of glass flasks and tubes with water, to  
2 started on Earth? How could so many and such 28 simulate the early ocean, and with the same  
3 a stunning number and variety of organisms 29 gases believed to be present in the early  
4 have come into existence? Few questions have 30 atmosphere. They applied heat, causing some  
5 puzzled so many, for so long. Philosophers, 31 of the water to evaporate and begin to circulate  
6 authors, and scientists have pondered, 32 through the tubes as vapor. They then created  
7 discussed, and explored the issue for decades, 33 electrical sparks inside the apparatus to  
8 and numerous hypotheses have been proposed 34 simulate lightning. As the experiment  
9 over time: maybe the first organic molecules 35 proceeded, the mixture began to change color.  
10 were formed in the deep ocean, from chemicals 36 After a few days, when the contents were  
11 spewed out by volcanic vents. Maybe the 37 analyzed, the scientists found what they were  
12 earliest life was actually made of simple 38 looking for: the very same organic compounds  
13 molecules, and these simple organisms created 39 that are the building blocks of all life on Earth.  
14 the molecules used by complex living 40 While the Miller-Urey experiment did not  
15 organisms today. Maybe life came to Earth 41 finally answer the question of life's origins, it  
16 from outer space. But in 1952, in a laboratory 42 provided support for the hypothesis that  
17 in Chicago, one hypothesis was about to be put 43 conditions on the early Earth could generate  
18 to the test. 44 the necessary components of life, and showed  
19 For decades, Alexander Oparin and J.B.S. 45 that natural chemical processes could well  
20 Haldane had proposed that conditions on the 46 have been all that was required to strike the  
21 early Earth favored chemical reactions that 47 spark of life. One of the most meaningful steps  
22 could produce organic compounds – the 48 in the quest for an answer to the question of  
23 building blocks of life – from inorganic 49 life, the Miller-Urey experiment, over the  
24 precursors. At the University of Chicago, 50 course of a few days, revolutionized a  
25 Stanley Miller and Harold Urey had devised an 51 conversation which has been taking place for  
26 experiment to test the idea. The team filled a 52 thousands of years.

B. although it was interesting, the Miller-Urey experiment was ultimately a failure.

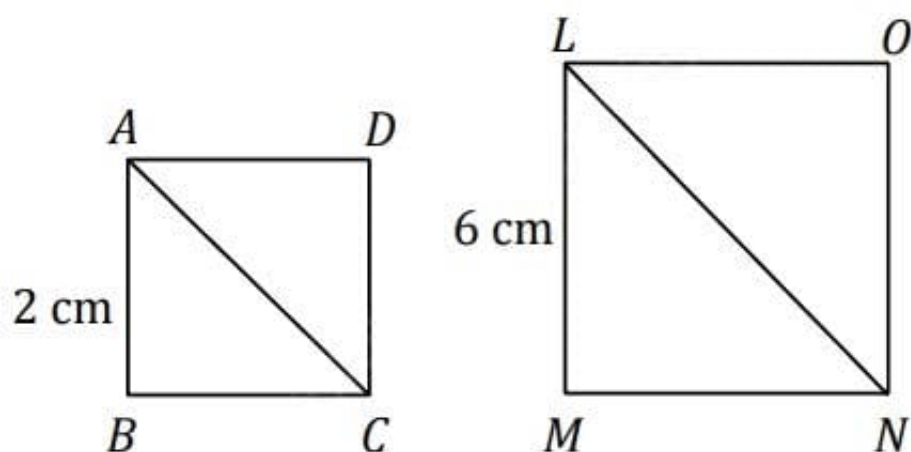
C. there's no evidence one way or another for how life really began.

D. we may need to learn more before we can finally determine how life began.

Correct Answer: D

## QUESTION 12

Triangles ABC and LMN are similar.



What is the ratio of the perimeter of square ABCD to the perimeter of square LMNO?

- A. 1 to 3
- B. 1 to 4
- C. 1 to 9
- D. 1 to 18

Correct Answer: A

### QUESTION 13

Lucy is ordering some books online. There is a flat shipping fee for the first book she orders, and an additional charge for every extra book. This is represented by the formula  $y = 0.75(x - 1) + 7$ , where  $y$  is the total shipping cost and  $x$  is the total number of books ordered.

What is the meaning of 0.75 in this formula?

- A. For every dollar it costs to ship, there are 0.75 books being mailed.
- B. For every book bought, the shipping cost is \$6.25.
- C. For every extra book bought after the first, shipping costs an additional \$0.75 per book.
- D. When 7 books are bought, the shipping cost is \$0.75.

Correct Answer: C

### QUESTION 14

Select the word that best completes the sentence.

Although Carl Linnaeus is now famous for creating a system for classifying plants and animals, he \_\_\_\_\_.

- A. was always widely revered for creating this system.



- B. had always known where to find certain tree species.
- C. first gained renown by writing a book about plant reproduction.
- D. taught his students to recognize what plants should be classified under what categories.

Correct Answer: C

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#### QUESTION 15

If 30 can be divided by both  $x$  and 5 without leaving a remainder, then 30 can also be divided by which of the following whole numbers without leaving a remainder?

- A.  $x \div 5$
- B.  $x^2$
- C.  $x + 5$
- D.  $x \times 5$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

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