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Vendor:Test Prep

Exam Code:ISEE-TEST

Exam Name:Independent School Entrance
Examination

Version:Demo

QUESTION 1

1/4 of which expression is greatest?

A. $A - 1$

B. A

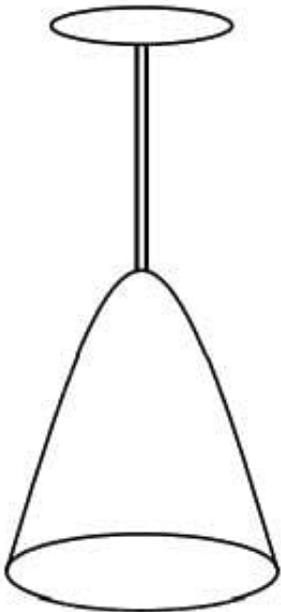
C. $A+3$

D. $A/3+1$

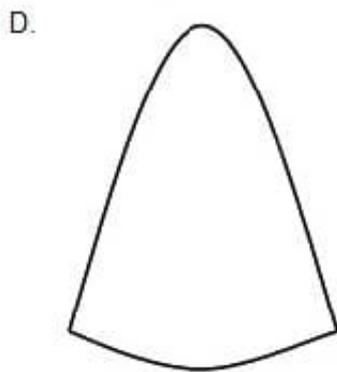
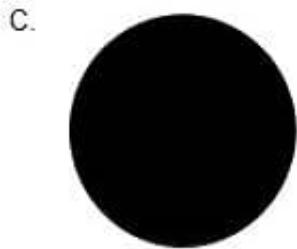
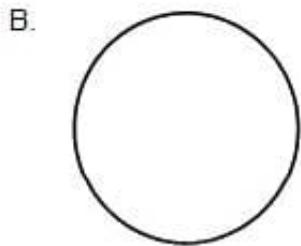
Correct Answer: C

QUESTION 2

Refer to the picture. An empty wine glass is shown placed upside down.



Which of the following shows all of the points where the glass touches the table?



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 3

Sonja has five coins, each with a "heads" side and a "tails" side.

If she flips all five coins at once, what is the chance that all of the coins will land with the "heads" side facing up?

A. $1/2$

B. $1/4$

C. $\frac{1}{25}$

D. $\frac{1}{32}$

Correct Answer: D

QUESTION 4

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

Column A

The slope of
the line with
equation $y =$
 $6x - 3$

Column B

The slope of a
line
perpendicular
to that line

- 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

QUESTION 5

The author's attitude toward the ocean could best be described as: A. fascinated.

1 Oceans cover most of Earth's surface,
2 and in their depths dwells most of the planet's
3 life. We are drawn to certain aspects of the
4 ocean, yet most of the marine world is alien to
5 us. Just offshore, coral reefs dazzle us with rich
6 colors and complex ecosystems. Reef fish are
7 often quite beautiful, displaying a stunning
8 variety of colors and patterns, and are a
9 favorite choice for fish tanks. However, some
10 parts of the ocean are less familiar to us. Kelp
11 forests – thick, dizzying mazes of life – provide
12 food for snails and urchins, which in turn are a
13 source of food for otters, rockfish, and other
14 predatory animals. Far out beyond the coast,
15 where waves tower over ships, whales and
16 massive fish graze on microscopic plankton,
17 extracting their sustenance from what appears
18 to the naked eye to be nothing but water. And
19 deep down, beyond the continental shelf,
20 beyond the warming rays of the sun, lie the
21 abyssal plains.

22 Here flat grey plains of ooze stretch over
23 incredible distances, shrouded in darkness, fed
24 by a constant rain of decaying matter from the
25 seas above. At first glance, these appear to be
26 dead, empty places, but in truth they teem with
27 life. Most of the life on the abyssal plains is
28 bacterial, but there are larger creatures there
29 too. Deep sea corals grow in the abyssal
30 plains, anchoring themselves to the sea floor.

31 There are also less familiar forms of life, like
32 the giant isopod and the sea pig. The giant
33 isopod is a crustacean, like a shrimp or lobster,
34 but it resembles a pill-bug, and can grow to be
35 more than a foot long. The sea pig is a kind of
36 sea cucumber. Most sea cucumbers resemble
37 slugs, but the sea pig has developed small
38 tubular legs and walks along the sea floor. It
39 gets its name from these legs and from its soft
40 pink flesh. There are fish, too, like the tripod
41 fish which uses long thin fins to perch on top of
42 the ooze, or the anglerfish which uses a
43 glowing rod-like appendage to lure prey into
44 its hungry jaws. And there must be much more
45 than we yet know; although this vast region
46 covers more than half of the entire solid
47 surface of the planet, it is one of the most
48 poorly explored places on Earth.

49 We have explored less than 1% of the
50 area covered by the abyssal plains, and most of
51 that exploration has been conducted by
52 remotely operated vehicles. Although we do
53 have small submarines capable of carrying
54 people to the depths of the ocean, fewer people
55 have gone to the abyssal plains than have gone
56 into space. This deep frontier, vast and
57 mysterious, will surely yield many new
58 discoveries in years to come if we only go and
59 look for them.

B. ambivalent.

C. stern.

D. indifferent.

Correct Answer: A

QUESTION 6

A school volleyball team is selling cupcakes to raise money. Their profits are their sale revenues minus their costs. Each box of cupcake mix can make 25 cupcakes and costs \$5.00 for the team to purchase. A tub of frosting can frost 50 cupcakes and costs \$2.00.

If the team sells each cupcake for \$1.00, what is the fewest number of cupcakes they must sell to make \$20 in profits?

- A. 20
- B. 27
- C. 32
- D. 35

Correct Answer: C

QUESTION 7

A squirrel ate an average of x acorns per day for x days. After those x days, the squirrel ate an average of y acorns per day for y days.

What was the average number of acorns eaten by the squirrel per day during that entire time period?

- A. $\frac{x^2+y^2}{x+y}$
- B. $\frac{x+y}{2}$
- C. $\frac{x^2+y^2}{2}$
- D. $\frac{x+y}{xy}$

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

Correct Answer: A

QUESTION 8

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

- A. advancement

B. impediment

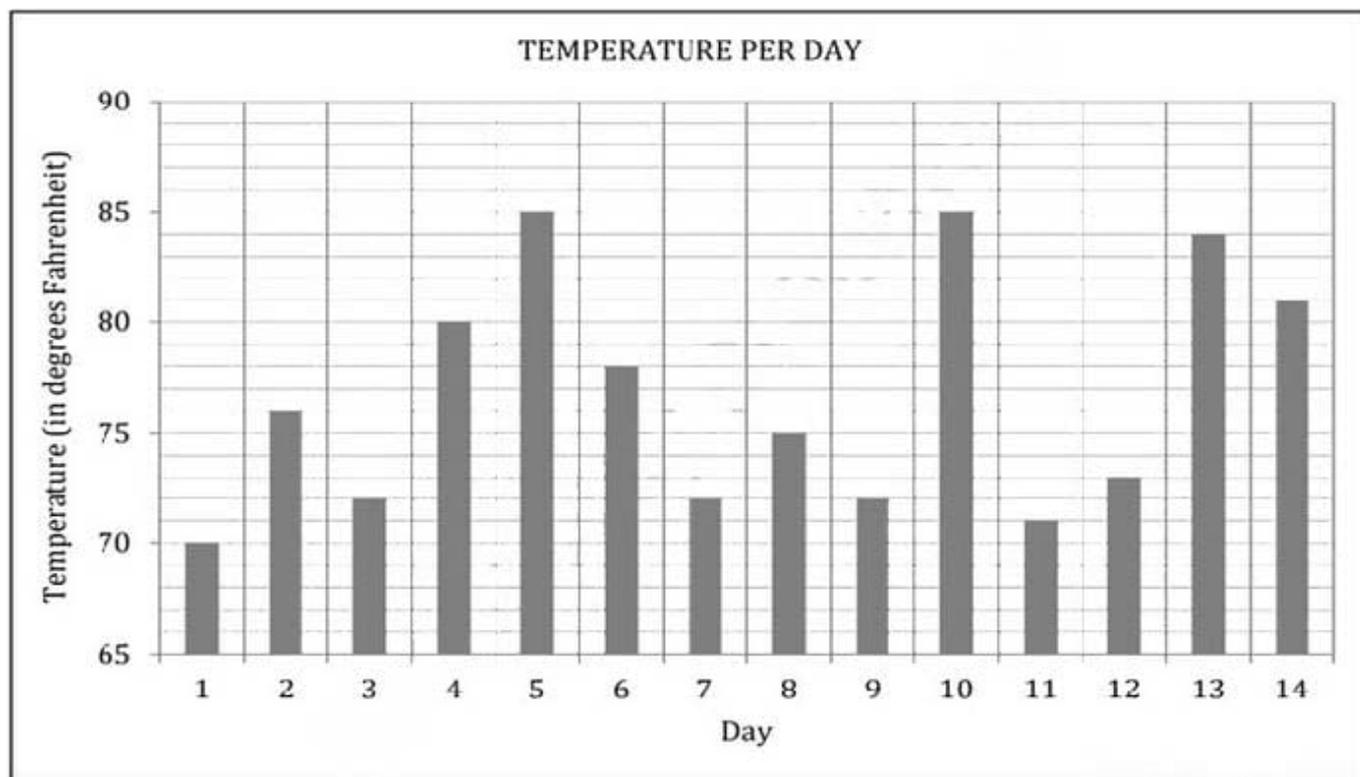
C. conclusion

D. division

Correct Answer: A

QUESTION 9

The bar graph below represents the temperature recorded on fourteen consecutive days.



What is the mode of the data?

A. 70

B. 72

C. 80

D. 85

Correct Answer: B

QUESTION 10

Select the word that best completes the sentence.

Marissa did not speak French, so she was nervous about visiting Paris and was pleasantly surprised _____.

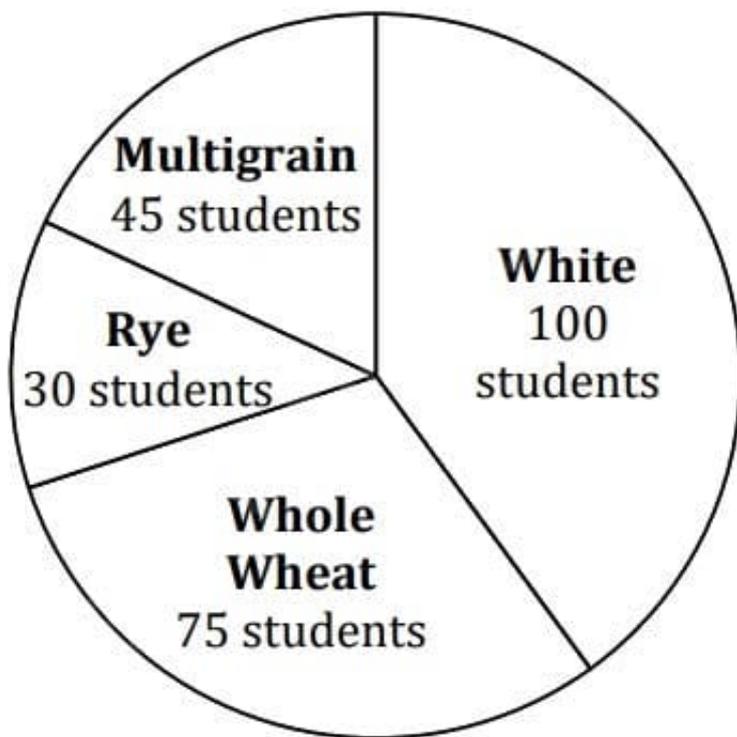
- A. to learn that Paris is the capital of France.
- B. when people there spoke to her in English.
- C. when people there spoke mainly in French.
- D. by a sudden trip to a different city in France

Correct Answer: B

QUESTION 11

Based on the pie chart showing students' cafeteria bread preferences, what percent of the students prefer whole wheat?

CAFETERIA BREAD PREFERENCES



- A. 75%
- B. 40%
- C. 30%
- D. 25%

Correct Answer: C

QUESTION 12

Which sentence best describes how the article is organized?

1 An early 19th century understanding of 25 to be the case took the position that some as-
2 the laws of gravitation predicted certain orbits 26 yet-undiscovered object in the outer solar
3 for each of the planets, and as a general rule the 27 system was perturbing the orbit of Uranus, and
4 seven planets known at that time politely 28 that the discovery of that object would explain
5 observed these orbits. Yet there was an 29 the eccentric orbit of Uranus.
6 exception: Uranus, at the far outer reaches of 30 If this theory was correct, it meant that
7 the solar system, refused to behave as 31 there was a large orbiting body waiting to be
8 predicted. The irregularity of Uranus's orbit 32 discovered in the outer solar system, and at
9 posed a problem for scientists: the data did not 33 least two scientists – John Adams Couch and
10 match their models for how the planets should 34 Urbain Jean-Jospeh Le Verrier – worked
11 behave. 35 separately to calculate the position of such a
12 Some believed the model must be 36 body. By 1846, they had calculated the mass,
13 modified, speculating that the effect of the 37 orbit, and position of what would soon be
14 sun's gravity simply changed at such extreme 38 recognized as the newest planet, using only
15 distances. Others were convinced that the data 39 theories of gravitation and observations of the
16 was flawed; they believed it was more likely 40 orbit of Uranus. With the calculations done,
17 that astronomers had botched their 41 astronomers pointed their telescopes to the
18 observations than that current models of 42 location in the night sky where Couch and Le
19 gravitation and planetary orbits – which so 43 Verrier had predicted the planet could be
20 elegantly predicted the motions of other 44 found, and in a dramatic confirmation of their
21 orbiting bodies – were wrong. Still, it was 45 work, Neptune could be observed directly in its
22 possible that the model was correct and the 46 distant orbit at the outer edge of our solar
23 observations had been accurate, but that the 47 system.
24 data was incomplete. Those who believed this

- A. A hypothesis is proposed, the evidence is considered, and it is concluded that the original hypothesis was correct.
- B. A problem is introduced, several possible solutions are discussed, and the correct solution is identified and explained.
- C. A problem is introduced, and possible methods for finding a solution are discussed, but no conclusion is reached.
- D. Two scientists are named, their competition to solve a problem is discussed, and the one who ultimately made the greatest contribution is celebrated.

Correct Answer: B