

NO.	QUESTION																																																				
1	<p>Coca-Cola and Pepsi announced plans to stop using sugar in their soft drinks, instead replacing it with high fructose corn syrup. With the launch of two press releases, U.S. sugar consumption decreased by more than 500,000 tons a year, according to historian James Bovard, driving sugar prices so high that it wrecked the market for sugar and replaced it with a thriving marketplace for high fructose corn syrup. Therefore, newly made Coca-Cola and Pepsi are healthier than the previous ones.</p> <p>Which of the following statements, if true, best strengthens the above argument?</p> <p>A. Coke Zero is an old variant of the Coca-Cola lineup which has no sugar in it. It is said to have more health benefits than the regular variant.</p> <p>B. High fructose corn syrup is "natural" and presents little to no risk to our health, scientific evidence, unpopular in the corn industry.</p> <p>C. Coca-Cola has done a tremendous job of feeding the world as an established leader, creating an enormous opportunity to lead this change and restore the integrity of our food system.</p> <p>D. The company announcement wrecked the market for sugar and replaced it with a thriving marketplace for high fructose corn syrup.</p>																																																				
2	<p>Sandra found a new way to send a message to her sister Lanie. Instead of using the normal alphabetical letters, she uses the keyboard keys to write a message. Below is a guide to Sandra’s new messaging system:</p> <table><tr><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td><td>H</td><td>I</td><td>J</td><td>K</td><td>L</td><td>M</td><td>N</td><td>O</td><td>P</td><td>Q</td><td>R</td><td>S</td><td>T</td><td>U</td><td>V</td><td>W</td><td>X</td><td>Y</td><td>Z</td></tr><tr><td>M</td><td>K</td><td>L</td><td>P</td><td>O</td><td>I</td><td>J</td><td>N</td><td>B</td><td>H</td><td>U</td><td>Y</td><td>G</td><td>V</td><td>C</td><td>F</td><td>T</td><td>R</td><td>D</td><td>X</td><td>Z</td><td>S</td><td>E</td><td>W</td><td>A</td><td>Q</td></tr></table> <p>Sandra is planning this message to Lanie: “BE CAREFUL ”</p> <p>How will Sandra communicate her message to Lanie?</p> <p>A. KRLMROIZY</p> <p>B. KOLMROIZY</p> <p>C. KOLMRTIZY</p> <p>D. KOLNROIZY</p>	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	M	K	L	P	O	I	J	N	B	H	U	Y	G	V	C	F	T	R	D	X	Z	S	E	W	A	Q
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M	K	L	P	O	I	J	N	B	H	U	Y	G	V	C	F	T	R	D	X	Z	S	E	W	A	Q																												

3

Emily wants to lose weight so she enrolled in a boxing class. Her first class will be on Monday so she already prepared her things. She bought boxing gloves, a first aid kit, and workout shirts. She also bought limited edition designer sports shoes to make sure it lasts long.

Months have passed and Emily still can't see the difference in her weight. This makes her more devastated and so she tends to eat more to ease the stress.



Emily: "I have been doing this for months but I still can't see any difference. Maybe I should take the supplements being promoted by Jennifer Lawrence."

Which among the options best describes the flaw in Emily's statement?

- A. Emily thinks that the product is effective since a world-renowned actress is promoting it.
- B. Emily thinks that her efforts are nothing compared to actresses who maintain their figures.
- C. Emily enrolled in a boxing class because it is the new trend.
- D. Emily invalidates her coach's training because she can't see any progress in her body.

4

Two letters must be placed in each set of brackets so that they form a word when tacked to the letters on the left and another word when placed in front of the letters on the right. The letters placed in the brackets must produce a six-letter word when read downwards in pairs.

MO (_ _) IN

PA (_ _) AN

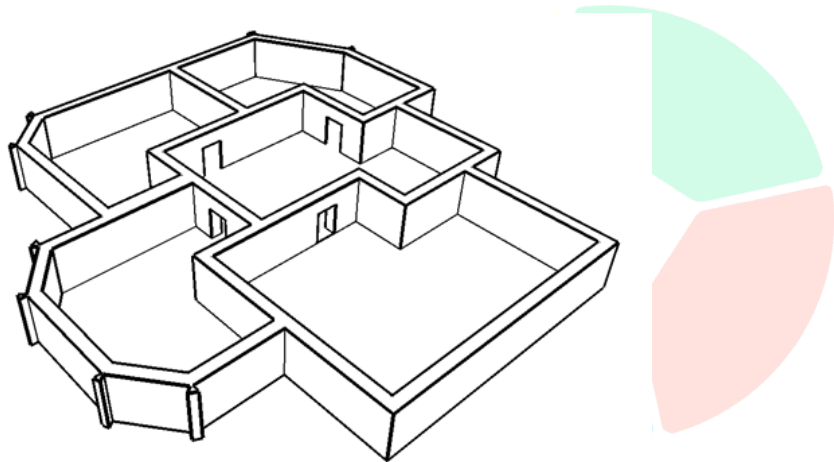
VE (_ _) EW

What word can be formed?

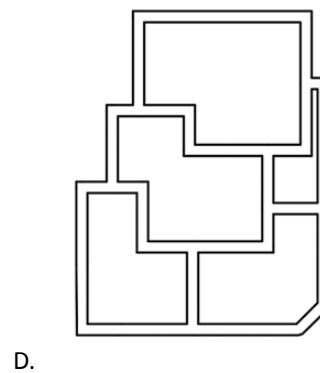
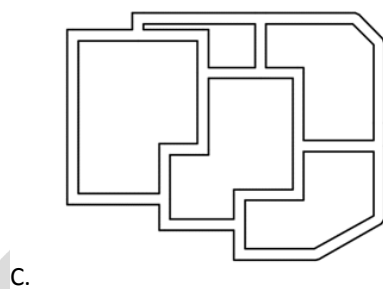
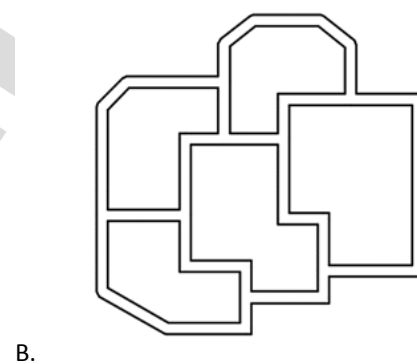
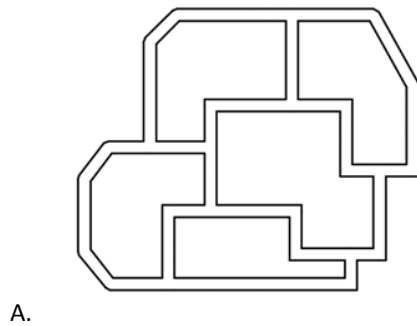
- A. THIRST
- B. QUENCH
- C. SWIPED
- D. SOLVED

5

A view of a single level of a structure shown below:



Which of the following drawings represents the floor plan for this building?

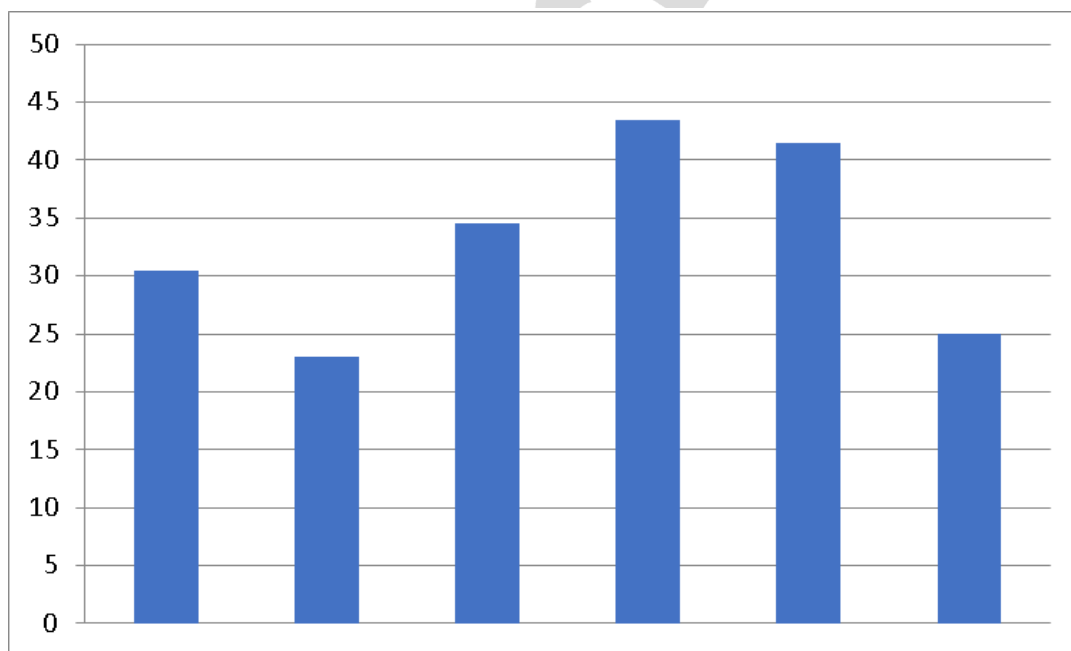


6

Athena wants to show her parents her average scores for each subject during the 2-day exam. The table below shows the data.

SUBJECT	DAY 1	DAY 2
Math	32	29
Physics	16	30
English	23	46
History	42	45
P.E.	43	40

Which bar should not be included in the graph below?



Note that the graph represents the average scores per subject

- A. 1st Bar
- B. 3rd Bar
- C. 4th Bar
- D. 6th Bar

7

Three drivers - Robert, Renato, and Noel were suspected of bumping a police car. When the policemen told them they would face imprisonment, they made the following statements:

Robert: I am not guilty.

Renato: Robert is guilty.

Noel: Renato is not guilty.

However, two are guilty, and two are lying.

Which of the following statements must be true?

- A. Robert is guilty and lying.
- B. Renato is guilty and lying.
- C. Noel is guilty and lying.
- D. Both Robert and Noel are guilty.



8

Desmond opened a new milk tea shop inside a mall. He made flyers and distributed them to the passers-by. He also did a layout for his online promotions and discounts. His family is invited to the grand opening on Saturday. However, he worries about her sister because she cannot go without her service dog.



Desmond: "I cannot allow pets inside the store. The fur will go into the milk teas and my customers might accuse me of being unhygienic and sales will go down rapidly."

Which among the options best describes the flaw in Desmond's statement?

- A. Desmond thinks that pets will ruin his business.
- B. Desmond thinks of a series of events that might take place if he allows pets.
- C. Desmond hastily concluded that something will happen with just having one scenario.
- D. Desmond cannot afford for his business to go down because he already spent for it.

9

Tam and Jona want to use a code to send secret messages to each other. In the code, each letter of the alphabet is represented by a one-digit number as follows:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
4	7	4	3	6	1	9	3	2	5	6	3	7	8	2	3	4	2	1	3	2	7	8	5	2	4

For example, the word BELL would be written in the code as 7-6-3-3.

To test the system, Tam writes four words about games in the code and sends them to Jona. Jona tries to decode them and gets the following answer:

PLAY

DICE

CARD

COIN

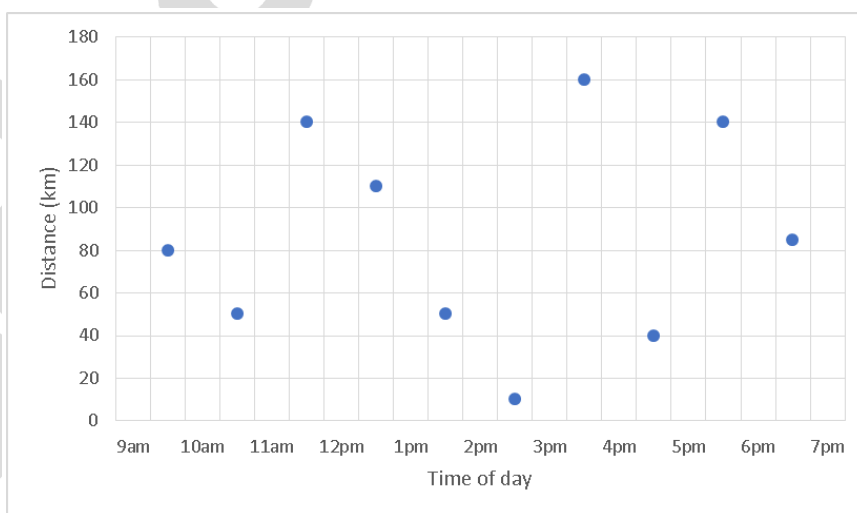
Jona is confident he has three of these words correctly, but she is unsure about the other one.

Which word is Jona unsure about?

- A. PLAY
- B. DICE
- C. CARD
- D. COIN

10

Shown in the table below are travel data of Manny.



How far did Manny travel from 9:30 am to 6:30 pm?

- A. 930 km
- B. 645 km
- C. 865 km
- D. 700 km

11

All living things, fish and plants included, use oxygen in a process known as aerobic respiration. In this process, oxygen is used to break down food molecules to release energy, which is in turn used to carry out all living processes. Think eating, growing, swimming, the works. The oxygen in the water available to fish is called dissolved oxygen. Fish use gills to take oxygen from the water just as we use our lungs to take oxygen from the air. Thus, all fishes need gills to survive.

Which of the following statements, if true, best weakens the above argument?

- A. Large fish tend to consume a greater total amount of oxygen compared to small fish.
- B. Most fish exchange gases like oxygen and carbon dioxide using gills that are protected under gill covers.
- C. Some fish are able to inhale oxygen from the atmosphere using labyrinth organs.
- D. At low temperatures, fish enter a state of near-hibernation, where they are able to survive with minimal metabolic activity.

12

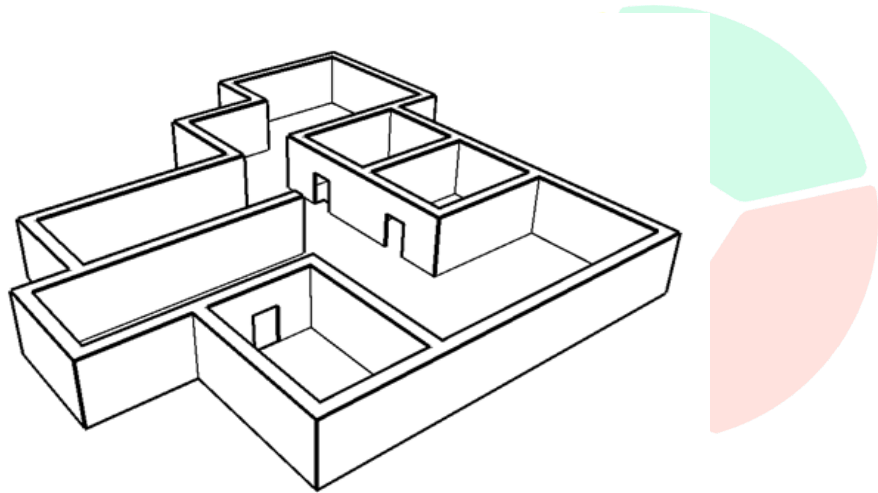
I want to purchase a Mathematics book. The book should have the topic of Algebra and activities. The shop will give me a 10% discount on some of the books. I only have \$15 to spend and I want to buy the cheapest one. The table below shows the books that I can choose from.

BOOK TITLE	COST (\$)	HAS ALGEBRA?	INCLUDES ACTIVITIES?	10% DISCOUNT AVAILABLE?
Introduction to Mathematics	10	Yes	Yes	Yes
Fundamentals of Math	15	No	Yes	No
Math for High School	20	Yes	Yes	No
Advanced Math	12	Yes	Yes	Yes

Which book should I buy?

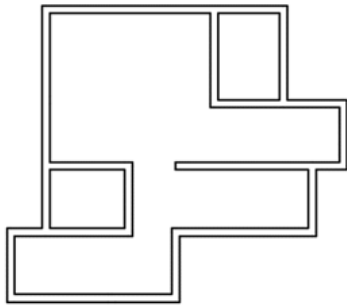
- A. Introduction to Mathematics
- B. Fundamentals of Math
- C. Math for High School
- D. Advanced Math

A view of a single level of a structure shown below:

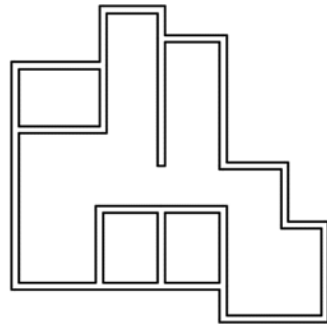


Which of the following drawings represents the floor plan for this building?

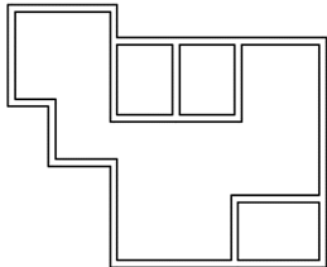
A.



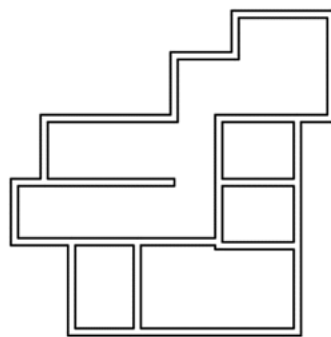
B.



C.



D.

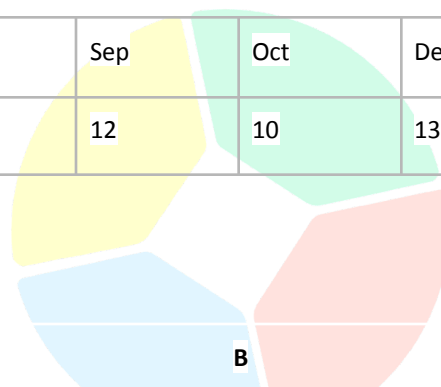


14	<p>It will not poison you to drink a liquid that is directly cooled by dry ice. At normal pressures, there may be some gaseous carbon dioxide dissolved in the liquid giving it a mild carbonation. However, dry ice can be dangerous to bare skin, mouth, or GI tissue if someone swallows medium to large pieces of dry ice. Small pieces are not poisonous but can produce an unpleasant popping or tingling sensation in the mouth. In a process similar to making liquid nitrogen ice cream, dry ice can even be used to make ice cream if it is crushed very finely.</p> <p>Which best states the main conclusion of the passage?</p> <ul style="list-style-type: none"> A. Do not place dry ice in airtight containers such as stoppered glass jars, bottles or other sealed containers as they could explode. B. Dry Ice is solid carbon dioxide frozen to -109 degrees. When added to liquids it creates a ghostly fog effect. C. Dry Ice begins to smoke immediately when put in liquid. It's great in a Halloween punch for that reason though the smoking only lasts 10-15 minutes-ish. D. Small portions of dry ice are not harmful to one's health. However, when taken in medium to large amounts, it can be dangerous to some parts of the body.
15	<p>Three friends - Cathay, Bea, and Janet, were suspected of paying the wrong amount of tuition fee. When the registrar told them they would face suspension, they made the following statements:</p> <p>Cathay: Bea is not guilty. Bea: Janet is guilty. Janet: I am guilty.</p> <p>However, two are guilty, and one is lying.</p> <p>Which of the following statements must be true?</p> <ul style="list-style-type: none"> A. Cathay is not guilty but lying. B. Bea is not guilty and telling the truth. C. Janet is guilty and lying. D. Cathay is guilty and lying.

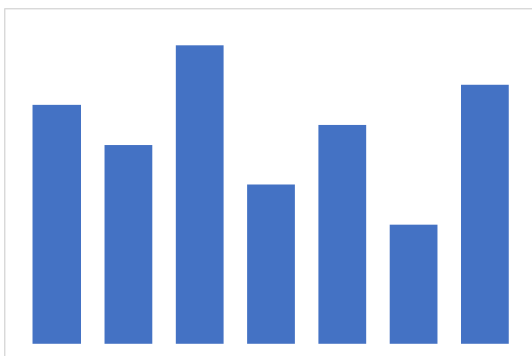
Shanon made a table for her sunblock sales for seven months. The data are shown in the table below.

MONTH	Jan	Mar	May	Jul	Sep	Oct	Dec
SALES	11	15	8	6	12	10	13

Which graph represents her sunblock sales?



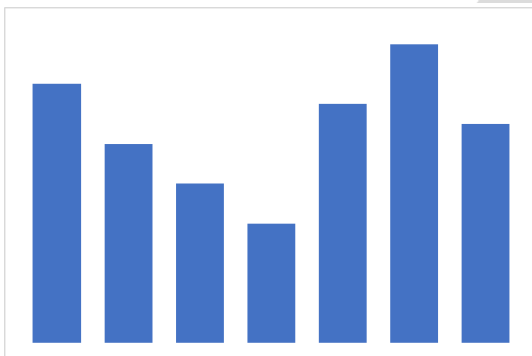
A



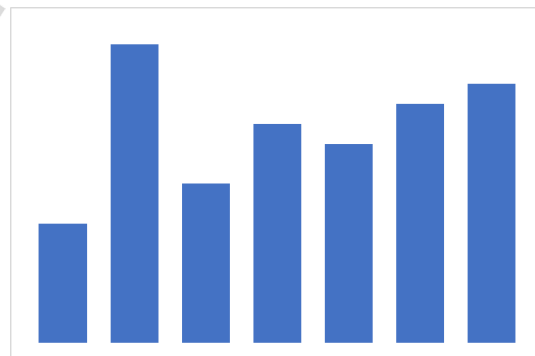
B



C



D



17

Roland wants to purchase a new set of school supplies while the mall still offers its promo. Shown on the table are the prices for each school supply and the amount paid with the promo.

SCHOOL SUPPLIES	PRICE	AMOUNT PAID
Pen	\$7	\$6.50
Ruler	\$5	\$4.40
Notebook	\$12	\$10.00
Eraser	\$9	-

The total amount he paid was \$29.

How many percent off was the eraser?

- A. 9%
- B. 8%
- C. 11%
- D. 10%

18

Facebook is for connecting with the people you went to school with and Twitter is for people you wished you had gone to school with. While Facebook is a multi-purpose social networking platform, allowing users to chat, post photos and notes, and play games, Twitter is built around the posting of short 140-character messages, or “tweets.” They are the two most popular social networks in the world. However, the result of the latest poll confirms that Facebook is better than Twitter since Facebook has the option to make the accounts private.

Which of the following statements, if true, best strengthens the above argument?

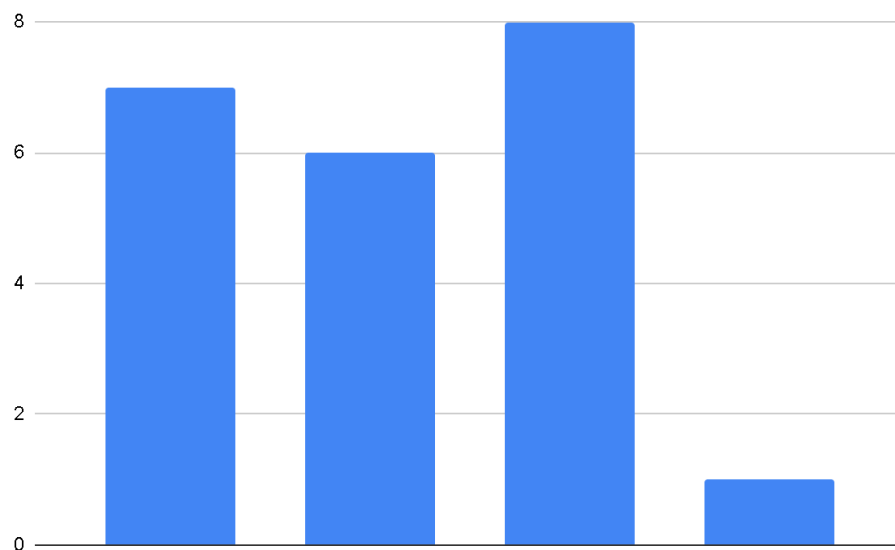
- A. Facebook is mainly used by individuals who wish to stay connected with, or reconnect with, people that they know offline.
- B. Facebook features ads. These adverts are often catered to the user, based on the preferences expressed in their profile.
- C. Facebook can be integrated into other websites, and Facebook login details can be used to access some other sites.
- D. Facebook is currently valued at \$104 billion.

19

Margot is craving a cheeseburger. She described what she wanted to her friends and asked their opinions about where she should get it from. She then listed the top four among her friends' suggestions and asked her sisters to rate them. The table below shows the ratings of each of her sisters.

CHEESEBURGER STORE	MELANIE	MYLA	MEGHAN
Jollibee	7	6	1
McDonalds	6	1	7
KFC	8	4	3
Burger King	1	9	8

Whose bar chart is being presented?



- A. Melanie
- B. Myla
- C. Meghan
- D. Margot

20

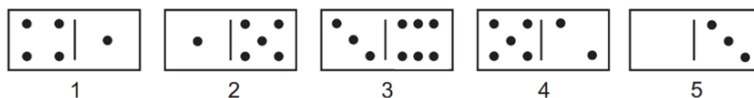
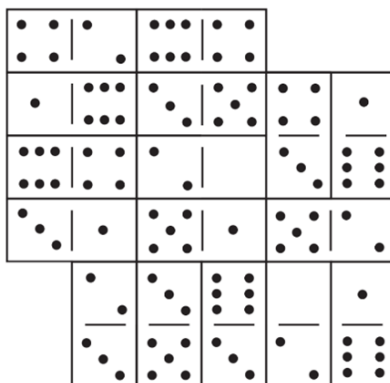
Animals are a large and incredibly diverse group of organisms. Making up about three-quarters of the species on Earth, they run the gamut from corals and jellyfish to ants, whales, elephants, and, of course, humans. Being mobile has given animals, which are capable of sensing and responding to their environment, the flexibility to adopt many different modes of feeding, defence, and reproduction. Unlike plants, however, animals are unable to manufacture their own food, and therefore, are always directly or indirectly dependent on plant life.

Which best states the main conclusion of the passage?

- A. Animal species comprise a large population. They are able to do various things such as run and adopt depending on their kinds.
- B. Animals are at the top of the food chain. They are all predators.
- C. The animals' ability to move about by the use of specialised muscle tissues is a hallmark of the animal world, though a few animals, primarily sponges, do not possess differentiated tissues.
- D. Some animals do not eat plants but other animals do. They are called carnivores and they mainly eat meat.

21

On a table, dominoes are to be arranged in a square, facing up, as shown below. New dominoes are placed so that neither of the numbers on them is placed next to the same number on another tile.



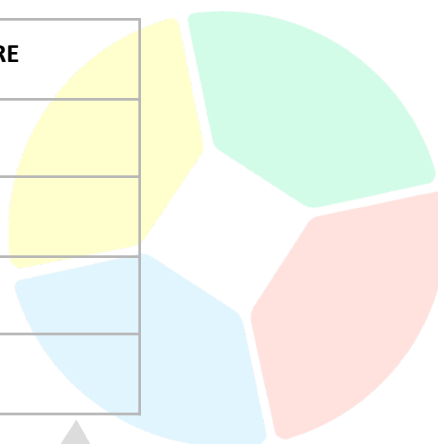
The dominoes numbered 1 – 5 shown above may be used only once.

Which of the two-domino combinations shown below will not complete the square?

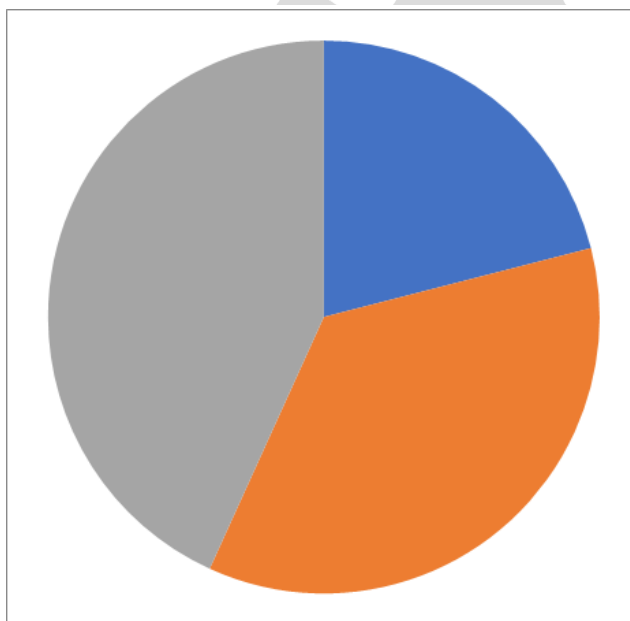
- A. 1 and 4
- B. 2 and 5
- C. 3 and 5
- D. 2 and 4

Ally was tasked to collect the scores of her groupmates and make a pie chart out of it. The table shows the data she collected.

NAME	SCORE
Christine	1.7
Cosette	2.9
Randolph	6.4
Mike	3.5



Whose data was missed based on the graph below?



- A. Christine
- B. Cosette
- C. Randolph
- D. Mike

23

Leslie wants to eat Korean-style fried chicken. The owner gave her four lists of flavours and she needed to choose only one from each list.

LIST 1	LIST 2	LIST 3	LIST 4
sweet soy	honey butter	padak	sunsal
garlic	cheese	spicy chilli	tongdak
yangnyeom	bbq	garlic	honey butter

Which of the following can she not choose if she already chose sweet soy, honey butter, and spicy chilli?

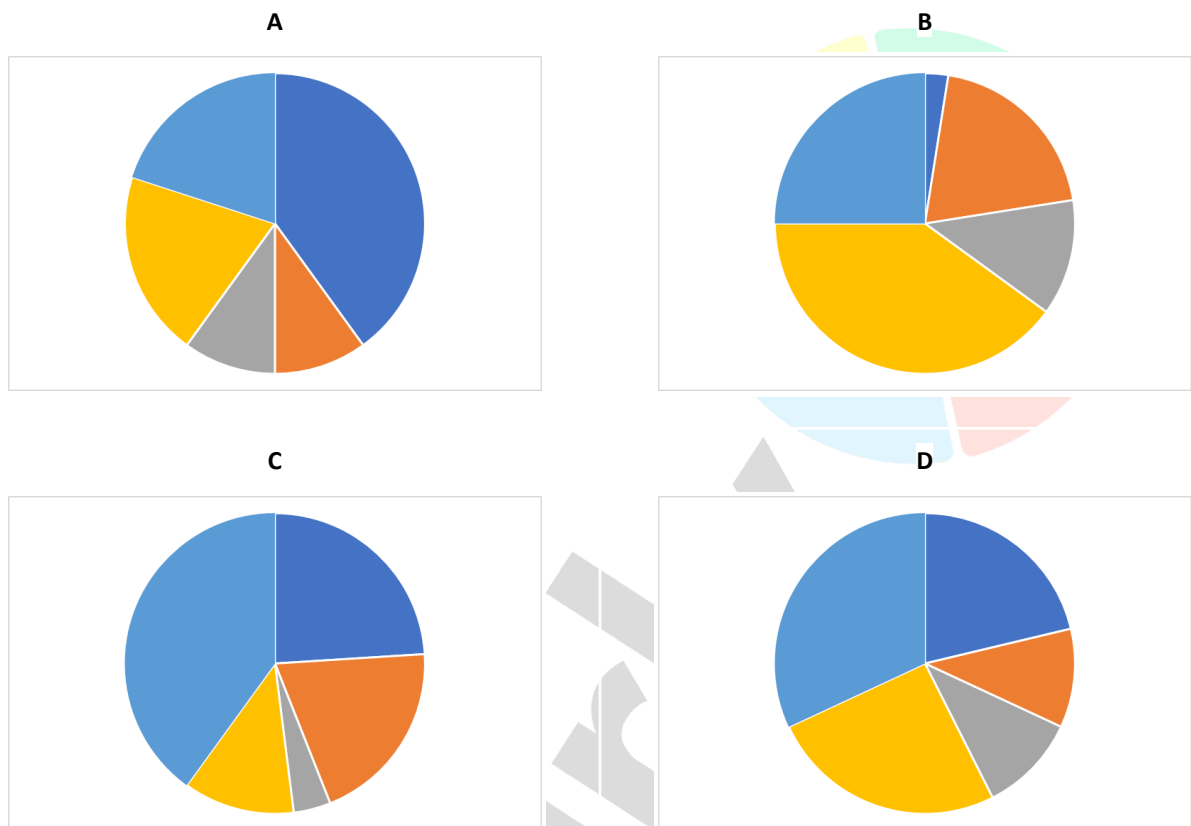
- A. garlic
- B. cheese
- C. bbq
- D. sunsal

24

Shenna was asked to draw a pie chart for her report, but she drew the bar chart shown below.



Assuming that her bar chart correctly represents the data, which of the following should Shenna have drawn?



25

Yesterday, in the ocean park, I saw 3 handlers doing medical surveillance with their octopuses.

Some of them did medical surveillance with only 1 octopus, and some of them did medical surveillance with 2 octopuses.

Counting the tentacles of the octopus and the legs of the handler who performed the medical surveillance, there were a total of 46 combined legs of the handlers and tentacles of the octopuses.

All octopuses have 8 tentacles and all handlers have 2 legs.

How many of the handlers performed medical surveillance with only 1 octopus?

- A. 3
- B. 2
- C. 1
- D. 0

26

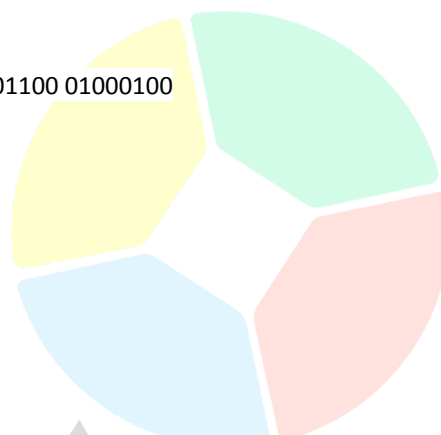
Ena used the binary number system of coding to send a message to her friend Ebony.

If the message "APPLAUSE" is written as

01000011 01001111 01001111 01001101 01000011 01010000 01001100 01000100

What is the code for APPLE?

- A. 01000011 01001111 01001111 01001101 01000100
- B. 01000011 01001111 01000100 01001101 01000100
- C. 01000100 01001111 01001111 01001101 01000100
- D. 01000011 01001111 01001111 01001111 01000100



27

Male emperor penguins will not eat for up to four months, from the time they arrive at the colony to breed until the egg has hatched and the mother returns to feed. They lose almost half of their body weight during this time. They need to rely entirely on the reserve of body fat that they built up during the summer feast to survive the long winter. Thus, emperor penguins rely upon themselves to survive.

Which of the following statements, if true, best weakens the above argument?

- A. The male penguin will balance the egg between his feet for about two months.
- B. The male penguin will not leave the egg to go eat — otherwise, the egg could freeze on the ice.
- C. Prior to fasting, penguins build up a fat layer, which provides energy.
- D. Female emperor penguins will lay one egg, and then go off into the ocean to hunt for food.

28

Aldrin wants to order bottled water from different brands for his science experiment. The vendor gave him four lists of brands and he needed to choose only one from each list.

LIST 1	LIST 2	LIST 3	LIST 4
Deep Spring	Zebia	Topo Chico	Hepburn
Vidae	Frantelle	Mount Franklin	Waterloo
VOSS Artesian	Vidae	Bubly	Frantelle

Which of the following can he not choose if he already chose Vidae, Mount Franklin, and Frantelle?

- A. Zebia
- B. Deep Spring
- C. Bubly
- D. Hepburn

Mariah Carey is an American singer, songwriter, actress, and record producer. Referred to as the "Songbird Supreme", she is noted for her five-octave vocal range, melismatic singing style, signature use of the whistle register and songwriting. For the enduring popularity of her holiday music, particularly the 1994 song "All I Want for Christmas Is You", she has also been dubbed the "Queen of Christmas".



Lilo: "I always play her songs during the Christmas season because I always hear them wherever I go."

Which among the options best describes the flaw in Lilo's statement?

- A. Lilo shifts her attention to Mariah Carey's songs during Christmas.
- B. Lilo spends a lot purchasing Mariah Carey's songs, especially during Christmas.
- C. Lilo plays Mariah Carey's songs every Christmas because everybody does it.
- D. Lilo plays Mariah Carey's songs every Christmas because she is her idol.

The data below shows the number of people applying for a bank loan.

BANK LOAN	A	B	C	D	E
NUMBER OF APPLICANTS	15	20	29	16	31
NUMBER OF APPLICANTS DECLINED	5	16	8	2	12

Which graph represents the number of applicants approved?

