


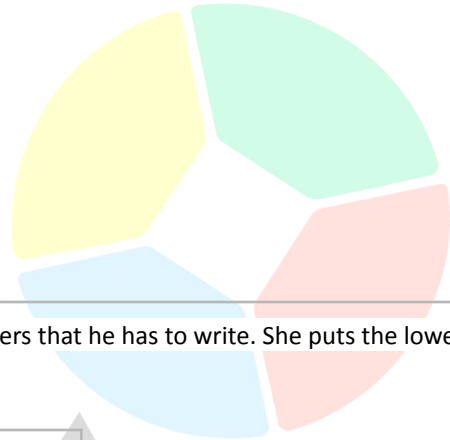
NO.	QUESTION																								
1	<p>Each city in Wakanda sets its own tax rate which applies to the whole of a person’s yearly income. Below is a table showing the tax information of 5 different residents in 4 cities.</p> <table><tr><th>Resident</th><th>City</th><th>Yearly income</th><th>Tax rate</th></tr><tr><td>Chad</td><td>Zan</td><td>\$20 000</td><td>5%</td></tr><tr><td>Angela</td><td>Adwa</td><td>\$15 000</td><td>10%</td></tr><tr><td>Dorothy</td><td>Fort Han</td><td>\$5 000</td><td>20%</td></tr><tr><td>Michael</td><td>Jaba</td><td>\$10 000</td><td>25%</td></tr><tr><td>Gigi</td><td>Ser Valley</td><td>\$8 000</td><td>15%</td></tr></table> <p>Who pays the same amount of taxes in a year as Chad?</p> <p>A. Gigi B. Michael C. Angela D. Dorothy</p>	Resident	City	Yearly income	Tax rate	Chad	Zan	\$20 000	5%	Angela	Adwa	\$15 000	10%	Dorothy	Fort Han	\$5 000	20%	Michael	Jaba	\$10 000	25%	Gigi	Ser Valley	\$8 000	15%
Resident	City	Yearly income	Tax rate																						
Chad	Zan	\$20 000	5%																						
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Dorothy	Fort Han	\$5 000	20%																						
Michael	Jaba	\$10 000	25%																						
Gigi	Ser Valley	\$8 000	15%																						
2	<div><p>Tom is a small business owner who recently invested in a new marketing strategy that involved creating social media accounts and running online advertisements. His friend, Dave, had something to say about this.</p></div> <div></div> <p>Dave: I don't think investing in social media is a good idea for your business. Everyone knows that marketing only works through traditional methods like print ads and billboards.</p> <p>Which of the following best shows the flaw in Dave's argument?</p> <p>A. Dave is unaware of the potential benefits of social media marketing. B. Dave assumes that traditional marketing methods are the only effective ones. C. Dave has a biased view of what counts as "real" marketing. D. Dave attacks Tom's decision-making ability instead of addressing the effectiveness of the marketing strategy.</p>																								
3	<p>In each of the following questions, two statements numbered I and II are given. There may be a cause-and-effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship.</p> <p>Statements: I. The price of gasoline increased by 10% this year. II. The number of people using public transportation has increased by 20% this year.</p> <p>Which of the following must be true?</p> <p>A. Statement I is the cause and statement II is its effect. B. Statement II is the cause and statement I is its effect. C. Statements I and II are either independent causes or independent effects. D. Both statements I and II are effects of some common cause.</p>																								

4

I normally catch the 08:19 bus to work in the morning. Yesterday, I thought that I had arrived at the bus stop 2 minutes too late and would have to wait for the later bus. However, my watch turned out to be 6 minutes fast and the 08:19 bus was running 3 minutes late.

How long did I wait at the bus stop yesterday morning?

- A. 5 minutes
- B. 7 minutes
- C. 9 minutes
- D. 11 minutes



5

A freelance digital artist charges prices according to the particular letters that he has to write. She puts the lowercase letters of the alphabet into these categories:

Type 1	d, g, l, n, r, s, t
Type 2	a, i, u, b, m, w
Type 3	e, o, h, k, p, v, y
Type 4	c, f, j, z, q, x

She charges as follows:

- 10 cents for every Type 1 letter that is followed by a Type 1 or Type 2 letter
- 15 cents for every Type 1 letter that is not followed by a Type 1 or Type 2 letter
- 20 cents for every Type 2 letter
- 25 cents for every Type 3 letter that is followed by a Type 1 letter
- 30 cents for every Type 3 letter that is not followed by a Type 1 letter
- 35 cents for every Type 4 letter
- 40 cents for every capital letter, regardless of its Type

Joan, a customer, wants to have this word designed:

Technique

How much will this cost?

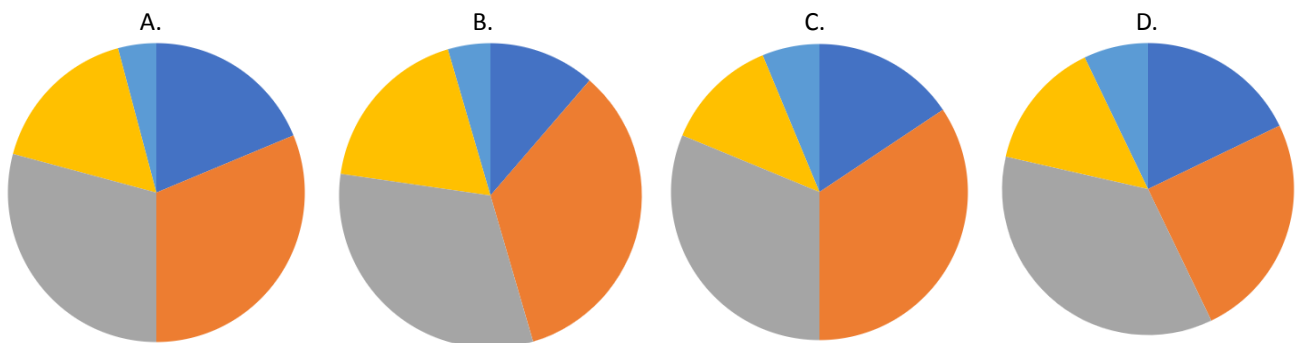
- A. 245 cents
- B. 230 cents
- C. 235 cents
- D. 250 cents

6

The faculty of Sydney Prep School conducted a survey on which Christmas gift is the most common. The top five results are as follows (not in a particular order):

Birth Month	Votes
Teddy Bear	125
Playstation 5	175
Pokemon Cards	250
Dollhouse	100
Book	50

Which of the following correctly represents the pie chart for the findings above?



7

Hannah wants to buy 8 pairs of sandals for her collection. For convenience, she wants to buy all pairs of sandals from one shop only. Listed below are the different sandal stores and their various promo discounts:

Sandal Store	Price per pair of sandals	Promo Discount
Shop A	\$170	10% off on total purchases
Shop B	\$175	\$299 less on total price
Shop C	\$185	Buy 3, Get 1 Free

If Hannah chooses the cheapest sandal store, how much will remain if she pays through her ATM card with a balance of \$4,000?

- A. \$2,599
- B. \$2,939
- C. \$2,899
- D. \$2,399

8

In September 2022, Landers decided to offer a promo discount for their customers who qualify for their loyalty program. The customers must meet both the requirements of the program:

1. The customer must have an average purchase of at least \$599 from May - July.
2. The total cost of the purchases from the past 3 months should reach \$1,299.00

Here are the customers who wanted to be part of the loyalty program:

	TOTAL PURCHASES PER MONTH (\$)			
Name	May	June	July	August
Felix	632	524	671	586
Chris	586	325	491	456
Sam	320	712	801	479
Peter	914	208	517	922

Who among the customers qualified for the loyalty program?

- A. Felix and Sam
- B. Sam and Peter
- C. Felix and Peter
- D. Chris and Sam

9

Rose is a medical student taking her examinations. Her first examination is on Monday 3 January and she has one examination every 4 days for 30 days. There are no examinations on Sundays, Wednesdays and Saturdays. Note that if the examination day falls on a day without scheduled examinations, the exam will be held on the next day.

JANUARY 2022						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

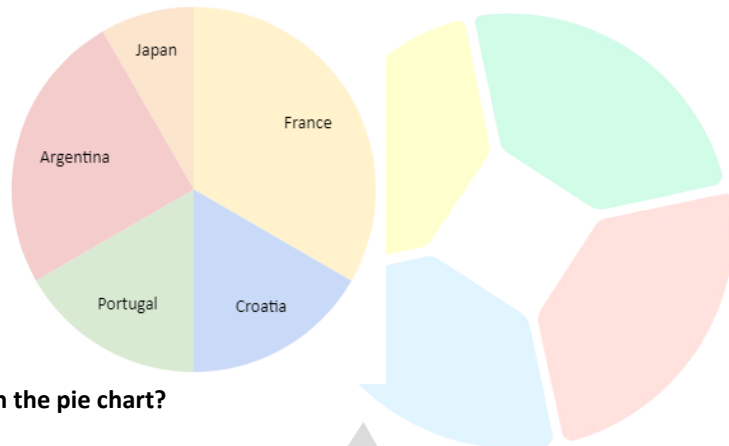
FEBRUARY 2022						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

What is the day and date of her final examination?

- A. Tuesday 1 February
- B. Monday 31 January
- C. Thursday 3 February
- D. Wednesday 2 February

10

There are 90,000 football fans who watched the FIFA World Cup Finals. The top 5 countries with the most number of football fans are shown in the pie chart below.



Which of the following matches the data in the pie chart?

A.

Variable	France	Croatia	Portugal	Argentina	Japan
Value	30,000	15,000	15,000	22,500	7,500

B.

Variable	France	Croatia	Portugal	Argentina	Japan
Value	20,000	5,000	25,000	15,500	10,500

C.

Variable	France	Croatia	Portugal	Argentina	Japan
Value	15,000	30,000	15,000	7,500	22,500

D.

Variable	France	Croatia	Portugal	Argentina	Japan
Value	10,000	5,000	25,000	15,500	32,500

11

- I. All monkeys are giraffes.
- II. Some giraffes are zebras.
- III. Most zebras are elephants.
- IV. No monkey is not an elephant.

If all the statements above are true, which one is also true?

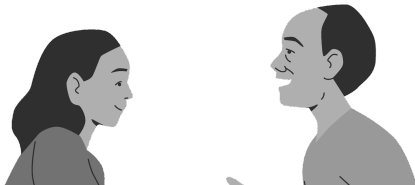
- A. No elephant is a giraffe.
- B. Some monkeys are not elephants.
- C. All elephants are giraffes.
- D. Some elephants are not monkeys.

12

William and Charlotte are taking part in the school's annual "amazing race," in which a group of pairs from the grade school department do a series of tasks and challenges to find the ultimate treasure hidden somewhere on the school campus.

As the pair progressed throughout the competition, they encountered a warning posted outside the classroom they were about to enter.

The sign reads, "If the door's indicator light is green, you're free to go in."



William: "The light is red right now, so I cannot enter the room."

Charlotte: "Yes, and the light had been red all day, preventing anyone from entering the room."

If the information in the box is true, whose reasoning is correct?

- A. William only
- B. Charlotte only
- C. Both William and Charlotte are correct.
- D. Neither William nor Charlotte are correct.

13


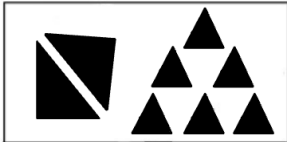
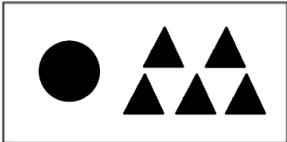
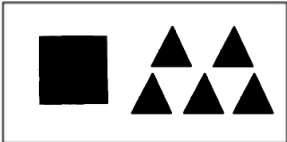

Nicole found a new way to send a message to her boyfriend, Ryan. Instead of using the normal alphabetical letters, she uses the keyboard keys to write a message. Below is a guide to Nicole's new messaging system:

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
Q	W	E	R	T	Y	U	I	O	P	A	S	D	F	G	H	J	K	L	Z	X	C	V	B	N	M

Nicole is planning this message to Ryan: "EAT YOUR MEALS ON TIME "

How will Nicole communicate her message to Ryan?

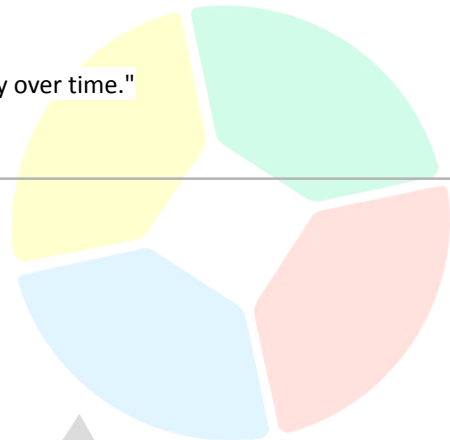
- A. TQZNGXKOTQSLGFZBDT
- B. TQZNGXKDTQSLGFZODT
- C. TOZNGXKDTQSLGFZOBT
- D. TQZNGXKBISLGFZODT

14	<p>It is impossible for lawyers who defend violent offenders to both uphold the right of their clients to confidentiality and have a genuine concern for the welfare of people who will be the victims of future violent crimes. The betraying of a client's trust by disclosing an unreported crime would be unethical, but remaining silent would allow potentially dangerous clients to remain free and continue committing crimes.</p> <p>Which of the following statements, if true, best weakens the above argument?</p> <p>A. Courts order most lawyers to represent violent offenders. B. Violent criminals are as likely as nonviolent criminals to have an attorney. C. Future violent crime victims have a right to confidentiality if they need legal counsel. D. A trusted attorney can persuade a violent criminal not to commit another crime.</p>
15	<p>Which component shapes can be made from the component parts?</p>  <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>A</p> </div> <div style="text-align: center;">  <p>B</p> </div> <div style="text-align: center;">  <p>C</p> </div> <div style="text-align: center;">  <p>D</p> </div> </div>
16	<p>A child is playing a game by placing four straight sticks on the ground. She scores 1 point for every crossing point made. She cannot break any of the sticks.</p> <p>What is the largest number of points that she can score?</p> <p>A. 4 B. 5 C. 6 D. 7</p>
17	<p>The authors of a recent article looked into the predictions that there will be a wave of animal extinctions within the next 100 years. These authors <u>assert</u> that there is no evidence to support the notion that the rate of extinction of animal species is currently <u>accelerating</u> at this time. However, they are mistaken. Consider only the information regarding the birds: There were a total of 40 bird species and subspecies that became extinct in North America during the 20th century, 13 of which went extinct between the years 1900 and 1950 and 27 since 1950.</p> <p>Which of the following best expresses the main conclusion of the argument?</p> <p>A. The <u>rate at which</u> animal species are going extinct appears to be increasing. B. North American bird extinction rates mirror those of all animal species. C. Forty North American bird species and subspecies have disappeared since 1900. D. A significant number of bird species are on the verge of going extinct in the near future.</p>

In one of Mr. Jones's anthropology classes, he talked about how the theory of evolution is one of the main reasons why life exists on Earth.

Mr. Jones says, "All species are connected, and they all change slowly over time."

Jane, one of Mr. Jones' students, disagreed and raised her hand.



Jane: "Evolution is merely a theory. But if it's just a theory, it's nothing more than an educated guess. It should not be taught to students that a guess is correct. As a result, schools should not teach evolution."

Which of the following best expresses the flaw in Jane's argument?

- A. Jane uses two alternating meanings of the word "theory" to create confusion.
- B. Jane personally attacks the life of Mr. Jones and describes him as incompetent.
- C. Jane believes there are only two options for her, so she chooses not to believe in evolution.
- D. Jane believes that a particular course of action will inevitably result in a series of future occurrences.

Packets of crisps are normally 50 cents each at my local shop. In a hurry yesterday, I went into the shop, picked up 8 packets of crisps, gave the assistant \$4 and headed for the door. The assistant called me back to give me 80 cents change. "Special offer this week," she explained.

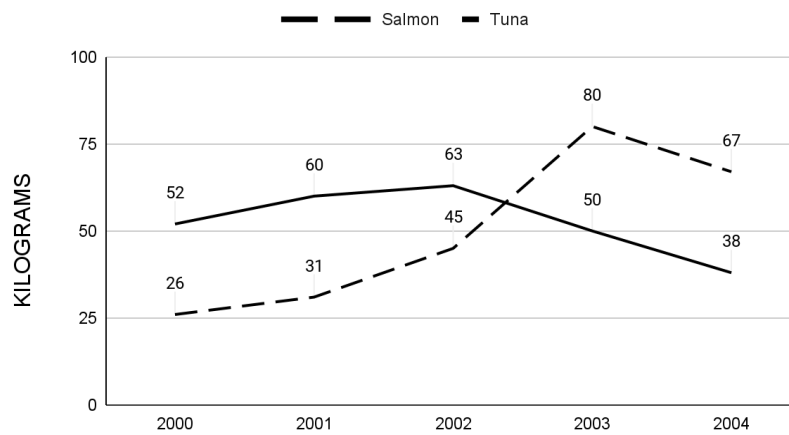
Which one of the following offers would not explain the 80 cents change I received?

- A. All packets 20% off
- B. Buy 2 packets, get a third packet for 10 cents
- C. Buy 3 packets, get a fourth packet for 10 cents
- D. Buy 4 packets, get a fifth packet free

20

The graph below shows the amount of two different kinds of fishes caught off the shores of Pagi Island over the course of 5 years.

Fish caught (in kilograms)



What is the difference between the average kilograms of fish caught in 2000 and the average kilograms of fish caught in 2003?

- A. 52 kilograms
- B. 26 kilograms
- C. 39 kilograms
- D. 65 kilograms

21

Three students - Faye, Grace, and Iris - were suspected of stealing their classmate's wallet. Teacher Evelyn knows that the two of them are guilty. When faced with suspension, they made the following statements:

Faye: Iris is guilty. I saw what she did earlier.

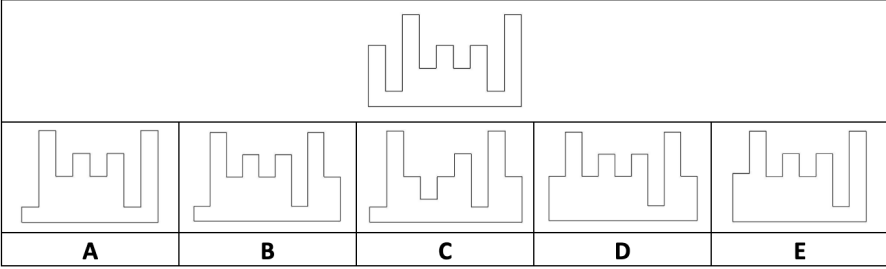
Grace: Faye is not guilty. She is innocent.

Iris: I am guilty. I stole the wallet.

However, only two of the three are telling the truth. The other one is lying.

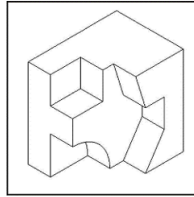
Which of the following statements must be true?

- A. Iris is guilty and lying.
- B. Grace is lying.
- C. Faye is not guilty and is telling the truth.
- D. Iris is not guilty but is not telling the truth.

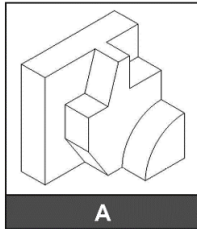
22	<p>Which of the following completes the figure below?</p> 
23	<p>Thom's morning shift is spent delivering pizzas to different customers as a side hustle. It takes Thom about twenty minutes to bring a pizza to a customer. If Thom is sick or has other things to do, his twin brother Ezekiel, who lives in the same condo as him, will often deliver the pizza orders.</p> <p>In accordance with the passage, which of the following statements must also be true?</p> <ul style="list-style-type: none"> A. The weather is sunny when Thom first starts making his deliveries. B. Ezekiel's delivery of the pizzas takes more than twenty minutes to complete. C. Both Thom and Ezekiel are from the same family. D. Ezekiel's goal is to replace Thom in his current position.
24	<p>Five contestants in a declamation contest—Martin, Othello, Pin, Queen, and Susy—will give their speeches in front of a judging panel during five consecutive time slots, one contestant per time slot. Each contestant will give his/her speech exactly once. The order of the contestants must adhere to the following conditions:</p> <p>If Susy gives her speech first, Martin gives his speech last. If Martin gives his speech second, Queen gives her speech first. Martin does not give his speech first. Pin gives his speech immediately after Othello gives his speech.</p> <p>Othello can give his speech in any of the five-time slots EXCEPT?</p> <ul style="list-style-type: none"> A. Second B. Third C. Fourth D. Fifth
25	<p>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 an eight-letter word when read downwards in pairs.</p> <p>CO (_) CH EA (_) AB ME (_) EW RA (_) NT</p> <p>What word can be formed?</p> <ul style="list-style-type: none"> A. ADDITION B. INSTANCE C. COMPRISE D. HUMANITY

26

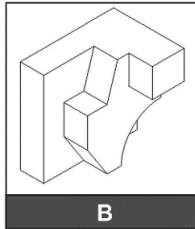
A piece of puzzle is shown below:



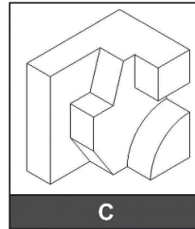
Which one of the following pieces will fit the piece above to make a complete cube?



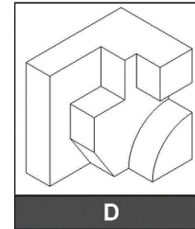
A



B



C



D

27

Alex will be celebrating his 21st birthday on December 27. His brother wants to buy him 5 NBA basketball jerseys. He gave him 5 lists and Alex can choose one basketball jersey from each list.

<u>List 1</u>	<u>List 2</u>	<u>List 3</u>	<u>List 4</u>	<u>List 5</u>
L.A. Lakers	Detroit	New Jersey	Memphis	Cleveland
Houston	Utah	Golden State	Sacramento	Clippers
Phoenix	Oklahoma	Orlando	Atlanta	Washington
Dallas	Boston	Portland	L.A. Lakers	Charlotte
New York	San Antonio	Milwaukee	Phoenix	Miami

Alex knows that he wants to buy basketball jerseys from Miami, Golden State, L.A. Lakers, and Boston. **What can Alex not choose?**

- A. Houston
- B. Phoenix
- C. Memphis
- D. Cleveland

28

There is a growing trend in the development of software for computers that is able to correct not only misspellings but also errors in grammar and punctuation. As a consequence of this, having a comprehensive understanding of the fundamentals of English grammar and punctuation is becoming an increasingly unnecessary skill for working reporters and writers. Therefore, in the process of training journalists, there ought to be less of an emphasis placed on the fundamentals of grammar so that students and teachers can focus their attention on other crucial topics.

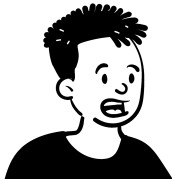
Which of the following statements, if true, best weakens the above argument?

- A. Effective use of grammar-correcting software requires grammatical knowledge.
- B. The majority of grammar and punctuation correcting applications are currently in use.
- C. Most grammar-correcting software can run on media outlets' computers.
- D. Journalism students' curricula already include how to use a variety of software packages.

In a TV news report, the current vice president of the country is still holding a large lead over other candidates in the presidential election poll.

According to data analytics, the vice president will surely have major support from cities with a population of more than a million.

The vice president's primary election campaign is to create new opportunities for the people and increase foreign direct investment in the country.



Joshua: "I have over 500 local Facebook and Twitter friends, and almost none of them will vote for the current vice president to be elected as the next president. As a result, I believe the polls are incorrect. I believe the current vice president will be defeated."

Which of the following best expresses the flaw in Joshua's argument?

- A. Joshua assumes that one thing caused another because the first thing preceded the other.
- B. Joshua argues a different subject rather than the topic being discussed in the passage.
- C. Joshua argues that the vice president cannot win because it has been proven false.
- D. Joshua draws a conclusion about a population based on a sample that is biased.

Mr. Mark uses similar passwords for his five online gaming accounts. All of his passwords consist of 8 characters. He knows that the password for his Valorant account has exactly one different character from the passwords of his other accounts. His passwords are shown below:

Dota 2: #&dC*58@

Fortnite: #&dC^58@

League of Legends: #&bC^58@

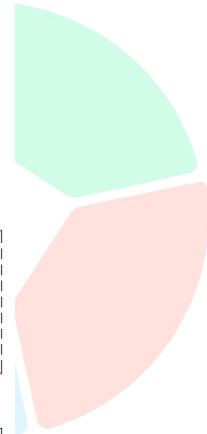
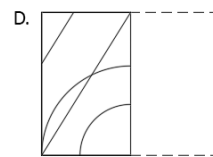
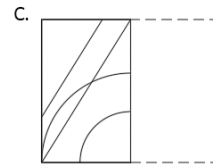
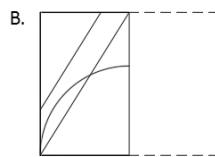
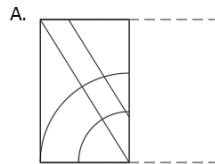
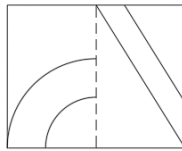
CSGO: #&dO^58@

What is Mr. Mark's Valorant password?

- A. #&dC^58@
- B. #&bC^58@
- C. #&dO*58@
- D. #&bC*58@

31

Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



32

A special code uses these two rules in encoding words:

1. For odd-positioned letters in the word, the code will be the letter in its position if the alphabet was reversed. (A will become Z)
2. For even-positioned letters in the word, the code will be the letter found 3 steps before it. (D will become A)

For example, APPLE is coded as ZMKIV, and PEACH is coded as KBZZS.

How would you code TECHNIQUE?

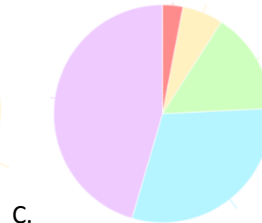
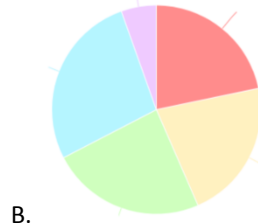
- A. GBXMEFJRV
- B. GVZSKRNFB
- C. GVXEMFJRV
- D. GBXEMFJRV

33

Ezekiel conducted a survey on 500 people at the grocery about their most preferred juice brand.

Juice	Minute Maid	Tropicana	Florida's Natural	Simply Orange	The Daily Juice
Value	138	119	85	97	61

Ezekiel made a pie chart that represents the information in the data. **Which of the following pie charts best represents the data in the table?**



34

When it comes to children, one of the most important aspects of instilling the idea of freedom is making sure they understand that this concept is not limitless. Freedom gives them permission to explore, make mistakes, and learn from them. Freedom grants them the permission to venture out, make mistakes, and gain wisdom from those experiences. It fosters a sense of adventure and sustained interest in the subject matter, turning education into a fun journey. However, it is important for children to understand that their freedom is limited if it infringes upon the rights of others.

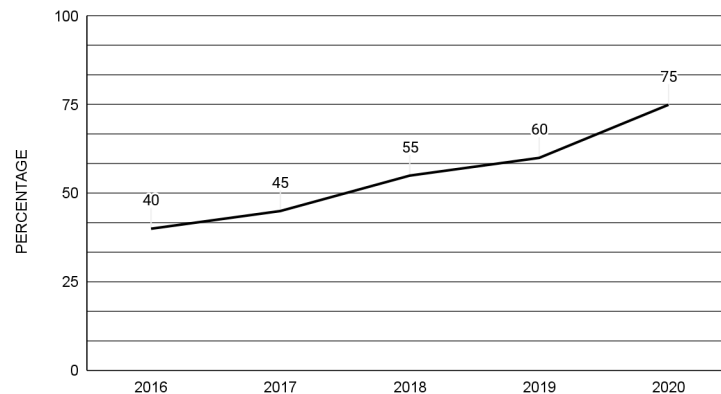
What is the main conclusion of the passage?

- A. Children must be allowed to be free to experience the world and be allowed to make mistakes.
- B. Children's consciousness of freedom must be exploratory but sensitive to others' freedom.
- C. Children's concept of freedom must stem from a desire to be freed from oppressive structures.
- D. Children's participation in activities that exercise their freedom empowers them to do good for others.

35

Sienna uploads travel vlogs on the internet. She keeps track of the number of views her videos get and the positive reviews they get. The chart below shows the percentage of positive reviews received out of the total number of views each year from 2016 until 2020.

Percentage of positive reviews out of the total number of views



If there were 57 750 positive reviews in 2018, what is the total number of views Kathy's vlogs received in 2018?

- A. 3 176 250 views
- B. 1 050 views
- C. 31 763 views
- D. 105 000 views

36

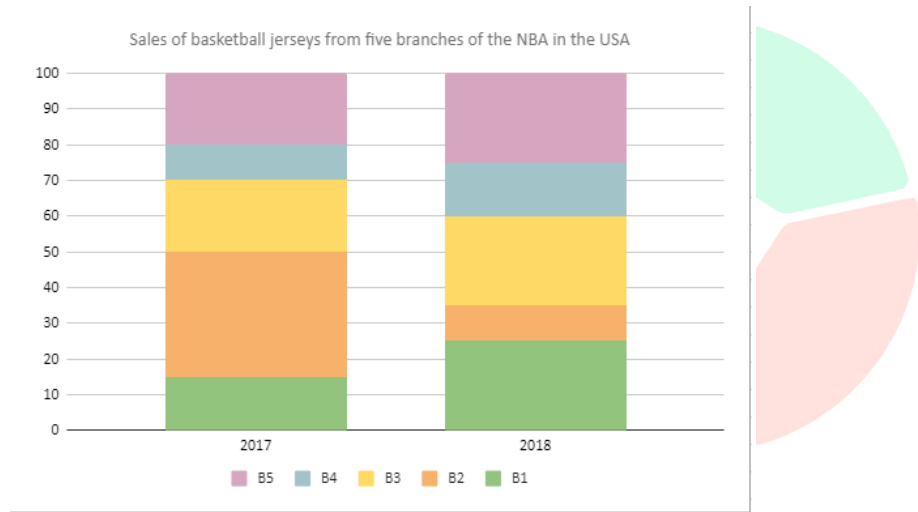
The purpose of a review of the relevant literature is to place your study within the context of what is currently known about the subject matter and to demonstrate that what you have to offer is novel, i.e., something that is different from what has already been attempted. The review also gives the referees confidence that you are up to date on the most recent advancements in your area of expertise.

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

- A. Review of related literature is important in tailor-fitting your research to the problem.
- B. Review of related literature should be a minimum of five pages.
- C. Researchers must have a review of related literature that is up-to-date.
- D. Researchers must look for a variety of references and properly cite them.

37

The bar graph below depicts basketball jersey sales (in thousands) from five branches of the NBA in the USA over two consecutive years, 2017 and 2018.



What percentage of the total sales of branch B5 for both years is the total sales of branch B4 for both years?

- A. 1.60%
- B. 1.80%
- C. 88.89%
- D. 55.56%

38

The unending academic demands and pressure from teachers pushed the whole student body to launch a massive protest on school grounds, asking for an academic break. One of the students pleaded during the student protest, "We cannot enjoy life anymore because the exams are given every day and there is no time for us to rest." "We need an academic break so that we can take care of our lives as well."

Albert, one of the school administrators, got his megaphone and responded to the student's concern.



Albert: "What is the meaning of life? This simple question baffles everyone, from philosophers to commoners. No answer has yet satisfied all or even most thinkers."

Which of the following best expresses the flaw in Albert's argument?

- A. Albert attacks the student personally by bringing up the student's academic record.
- B. Albert asks questions that are hard to answer, making the student confused and misdirected.
- C. Albert draws a conclusion about a population based on a sample that is biased.
- D. Albert assumes that one thing caused another because the first thing preceded the other.

39

Shane is going to the Country Fair with her friends. In order to play in the different booths, she must have tokens.

Promo 1 costs \$10 and includes 10 tokens.

Promo 2 costs \$5 and includes 5 tokens.

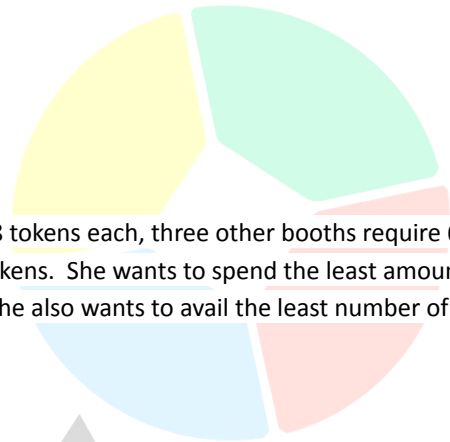
Promo 3 costs \$3 and includes 3 tokens.

Each booth at the fair requires a different number of tokens.

Shane is planning to play in 8 different booths. Three booths require 8 tokens each, three other booths require 6 tokens each, and two booths require 5 tokens each. Greyson gave Shane 4 tokens. She wants to spend the least amount of credits that would allow her to play in 8 different booths. Moreover, she also wants to avail the least number of promos.

How much in total should Shane spend?

- A. \$38
- B. \$42
- C. \$48
- D. \$56



40

Carlos wants to buy a luxury vacation home. He wants one on a square lot that has an area of at least two thousand square metres. He also wants it to have at least 8 bedrooms, and an updated security system from 2020 or later. He also wants it to be 7 kilometres at most from the closest beach. The details of four houses recommended by his real estate agent are below.

House	Lot dimensions (in square metres)	No. of bedrooms	Security System Year	Distance from the beach (in metres)
Hillside	40 sq. m. x 40 sq. m.	9	2020	5 120
Galen Hall	45 sq. m. x 45 sq. m.	6	2020	6 000
Sea View	60 sq. m. x 60 sq. m.	8	2021	1 800
Silver House	72 sq. m. x 72 sq. m.	10	2020	25 0000

Which house fulfils all of Carlos' requirements?

- A. Hillside
- B. Galen Hall
- C. Sea View
- D. Silver House