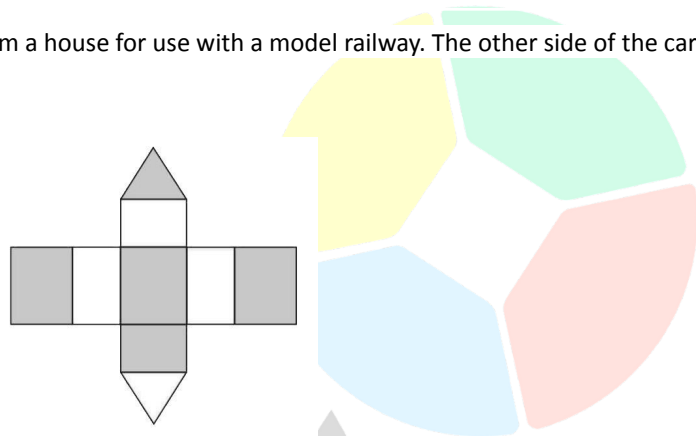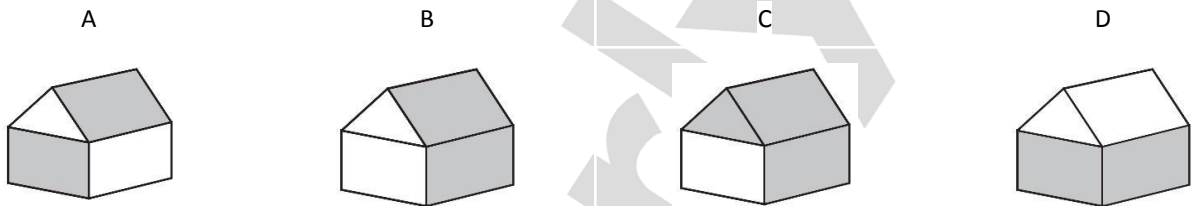1 The piece of cardboard shown below folds to form a house for use with a model railway. The other side of the cardboard is black, which forms the inside of the house.

Which of the illustrations below correctly shows the assembled house?

A   B   C   D

2 Steve and Gerard 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
7	0	4	3	6	9	0	4	5	6	7	8	9	2	3	5	1	1	6	7	5	9	4	5	9	6

For example, the word TOKEN would be written in the code 7-3-7-6-2.

To test the system, Steve writes four words in the code and sends them to Gerard. Gerard tries to decode them and gets the following answers:

ABOUT
LUCKS
ABORT
TRACE

Gerard is confident he has decoded 3 of these words correctly, but he is unsure about the other one.

Which word is Gerard unsure about?

     A. ABOUT
     B. LUCKS
     C. ABORT
     D. TRACE

3 People who struggle to learn a new language can benefit from listening to popular music. According to recent research, connecting with people's interests and motivating them to learn a language can be accomplished by employing popular songs, movies, and TV shows. Furthermore, music encourages higher-order thinking and benefits students who are right-brained and have good hearing. It has been demonstrated that music can improve linguistic relationships. The ability to continue learning a language while having fun might help learners gain more confidence in their abilities.

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

    A. Another advantage relates to the mental health challenges that people face, particularly during the pandemic. There is evidence that popular songs can help reduce anxiety.

    B. The youth like popular songs because of their authenticity in the real world, the personalised options available in streaming libraries, and the relatable topics embedded within them.

    C. Pop songs have numerous features that support learning, inspiration and relaxation. Its lyrics are repetitive, easy to understand, conversational, and they elicit emotional responses.

    D. Traditional approaches to adult language teaching are more effective because they frequently employ resources such as textbooks and generic learning materials.

4 Only rich students will pass the qualifying examination.

If the above statement is true, which of the following statements must also be true?

    A. If Adrian fails the qualifying examination, it is because he is not rich.

    B. Passing the qualifying exam does not depend on being rich or poor.

    C. It is difficult to pass the qualifying examination.

    D. If Felix wants to pass the qualifying exam, he may do so even if he is poor.

5

> At the age of 37, LeBron James became the first active NBA player to become a billionaire. Despite earning nearly $400 million in salary during his NBA career with the Los Angeles Lakers, Cleveland Cavaliers, and Miami Heat, James' off-court earnings far outweigh that. According to Forbes, James has earned more than $900 million in business investments and endorsements.

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

May: "Aside from being a great basketball player, Lebron James sure knows how to invest his salary in businesses."
Finn: "Being an NBA superstar like Lebron James surely gives him lots of opportunities outside of the basketball world."

    A. May only
    B. Finn only
    C. Both May and Finn
    D. Neither May nor Finn

To pass the first level qualifying exam, a student needs to achieve the following criteria required by the department below:

- Every subject taken by the students must have at least a 70% score. Anything below will be considered a fail.
- The general weighted average of all the subjects taken must at least reach 75% to pass the examination.
- If the general average is between 70% - 75%, then the student will receive a status of conditional and will retake the examination.

Erica: "I got my results yesterday and I was sad to know that I only got a general weighted average of 73%. However, I know I can pass since my father is the mayor and the principal owes us big time."

Which of the following sentences shows the mistake Erica has made?

- A. Erica assumes that two events happened because one causes the other to happen.
- B. Erica tries to make others accept her ways because it has been done or believed for a very long time.
- C. Erica assumed that his father's relationship with the principal can help her pass the examination.
- D. Erica seems to believe that she only has two options where, in fact, there could be more options to choose from.

7   Anton wants to buy 20 jogging pants for his elementary class. There are four available tailoring shops that can make jogging pants. The shops, the price of the varsity jackets, and the special offers are shown in the table below:

	Standard Price of a Varsity Jacket	Special Offer
Shop A	$45	Buy 8 get 1 free
Shop B	$55	40% off for the first 10 jackets
Shop C	$65	20% off final price
Shop D	$50	No Special Offer

Anton wants to buy all the jogging pants from the same shop and spend as little as possible.

What is the difference in price between the cheapest and most expensive options?
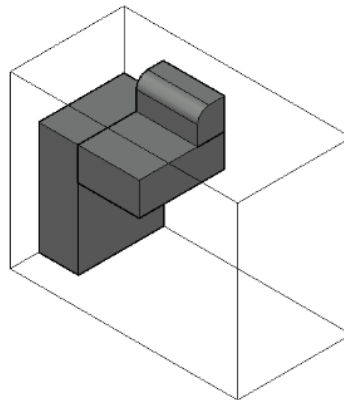
- A. $230
- B. $190
- C. $260
- D. $40

8 Most successful basketball players in the hall of fame began playing the sport at an early age, though a significant number of hoopers played the sport later in life. However, no professional basketball player, who ignored the advice of his coaches, has become a part of the hall of fame.

If the above statement is true, which of the following statements must also be true?

A. The most successful basketball players play the sport at a young age.
B. Not all professional basketball players who played the sport at a young age ignored their coaches' advice.
C. No professional basketball player who learned basketball later in life will ignore the advice of his coaches.
D. The more times a basketball player follows his coaches' advice, the more likely he is to be successful.

9 Margarette invited Joshua to travel south and go to their favourite resting place. They both left their respective houses at 9 AM. Margarette's car travels 80 km/hr while Joshua rides a motorcycle that travels at 50 km/hr. Margarette's car travelled 115 km to arrive at the restaurant and she waited for her friend to arrive.
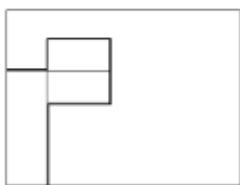
How long will it take Joshua to catch up to the restaurant after Margarette arrives?

A. 52 minutes
B. 130 minutes
C. 105 minutes
D. 51 minutes

10 A sculpture is placed in a glass box and displayed in a museum as shown in the diagram below. The sculpture can be viewed from all sides.
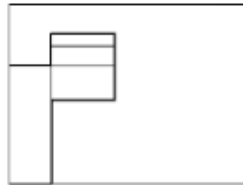

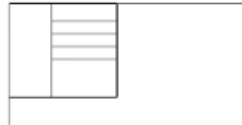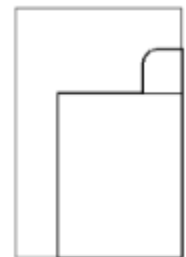**Which one of the following is a possible view from one of the sides of the glass box?**

A.

B.

C.

D.

11 Three lab scientists - Alex, Brylle, and Kyle were suspected of eating inside the chemical laboratory. The team supervisor knows that two of them are guilty. When faced with a suspension of a week, they made the following statements:
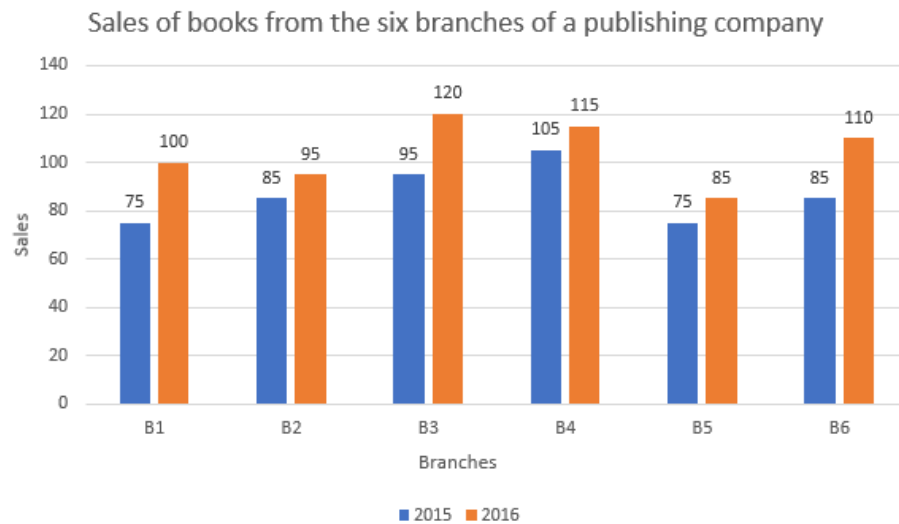
Alex: I am guilty.
Brylle: Alex is not guilty.
Kyle: Alex is guilty.

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

Which of the following statements must be true?

    A.   Brylle is telling the truth.
    B.   Alex is lying.
    C.   Kyle is lying.
    D.   Alex is guilty and is telling the truth..

12 The bar graph below depicts book sales (in thousands) from six branches of a publishing company over two consecutive years, 2015 and 2016.

Sales of books from the six branches of a publishing company

What percentage is the total sales of branch B6 for both years of the total sales of branch B3 for both years?

    A.   88.64%
    B.   81.40%
    C.   74.42%
    D.   90.70%

13 A toy for children may appear to be an unlikely candidate for the classical concert hall. Every year, however, thousands of musicians gather around the world for toy piano festivals, conferences, and concerts. These composers and performers gather to discuss the latest developments in toy piano music and perform new pieces while exploring its sound, range, and playing technique. Italy and Korea have recently held their first toy piano festivals. Despite being designed and marketed for children and families, toy pianos have been used for decades to compose everything from concertos to pop songs.

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

    A. Unlike many other instruments used for composition, the toy piano is not globally standardised and there are a lot of ways to make it.
    B. Toy piano specialists are becoming more common as in-demand performers and composers.
    C. With its history and connection to childhood, the toy piano is used to convey innocence and nostalgia.
    D. Toy pianos offer composers an exciting escape from the relatively closed world of classical music.

14 There are 1,564 books in Fiona's personal library that she plans to donate. The fiction books must be arranged in 54 boxes. Every book must be placed in the box before she can donate it to the public library.
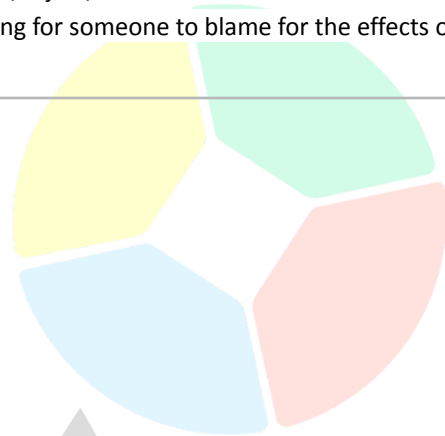
How many books did Fiona already place in the donation boxes if 136 books are borrowed by her friends and relatives and 932 books are kept as her personal collection?

    A. 992
    B. 632
    C. 1,428
    D. 496

15 Aaron, Draymond, Max, John, and Klay are competing in a local marathon. The competing marathoners are at the final lap of the competition. The results are shown below:

- Klay finished ahead of Draymond in the final level but came right after Aaron.
- Max is faster than Aaron.
- John finished ahead of Max in a matter of split seconds.
- Draymond stumbled while running and finished the marathon in last place.

Who among the triathletes achieved 4th place?

    A. Max
    B. John
    C. Aaron
    D. Klay

16

Stigma associated with COVID-19 diagnosis has the potential to devalue, reject, and exclude school students. This is synonymous with bullying, and it could indicate that students are looking for someone to blame for the effects of COVID-19 on their lives.

Emanuel: "Hi, I am Emmauel. I am John's brother. I hope we can be friends."
Rose: "Oh, I am sorry. I cannot trust you and make you my friend. You are John's brother and he tested positive for COVID-19 last year. You might be sick."

Which of the following sentences shows the mistake Rose has made?

A. Rose insulted Emanuel by throwing personal shades at him, such as commenting on his personality, character, and looks.
B. Rose assumes that what is true of the whole is true to all its parts.
C. Rose rejects Emanuel to become her friend on the basis of him being John's brother.
D. Rose does not have any proof or evidence that Emanuel cannot be trusted and cannot be his friend.

17 Daniel is planning to learn sports in the coming summer break. He put up a list of sports he could choose. He plans to pick his top four sports but he needs to choose one sport per list.

List 1	List 2	List 3	List 4
Hockey	Cricket	Football	Basketball
Snowboarding	Badminton	Softball	Water Polo
Golf	Tennis	Table Tennis	Rugby
Basketball	Volleyball	Baseball	Football

Daniel's first three choices were: Basketball, Football, and Badminton.

What sport can Daniel not take?

A. Hockey
B. Rugby
C. Tennis

D. Baseball

18 A few statements have been made, and two conclusions have been drawn from them. Assume the statements are true, and then determine which of the given conclusions follows the statement logically.
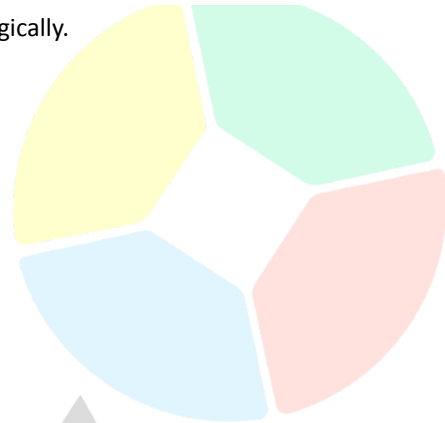Statement 1: Only a few reds are greens.
Statement 2: Only a few greens are blues.
Statement 3: Some blues are oranges.

Conclusion 1: Some reds are not greens.
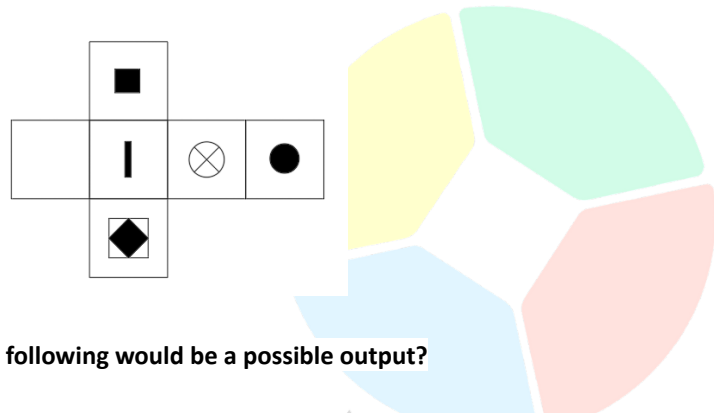Conclusion 2: Some greens are not oranges.

Which one of the following statements is true?

A. Both conclusions I and II follow.
B. Only conclusion 1 follows.
C. Only conclusion 2 follows.
D. Neither conclusion 1 nor conclusion 2 follow.

19 Early-risers have better concentration and are more alert and energised throughout the day. Morning people are more proactive and goal-oriented, have strong problem-solving skills, and do well in school, eventually going to good colleges and landing high-paying jobs, according to a 2010 study. Adequate and consistent sleep improves blood pressure, immunity, basic brain functions, and mood, and allows your body to repair itself. Waking up early makes it easier to go to bed early, and maintaining consistent sleep and wake times regulates your circadian rhythm and leads to deeper sleep at night.
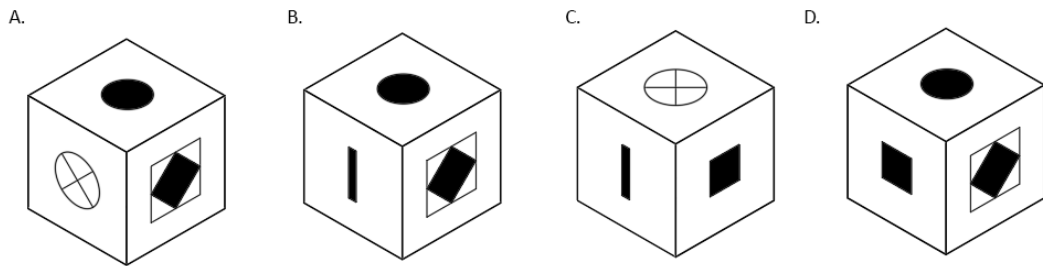
Which of the following best expresses the main conclusion of the argument?

A. Many productive and healthy people rise early. People who get things done recommend waking up early because it gives you more time for errands or work.
B. If you have to rush out the door because you woke up late, you're more likely to grab a quick and unhealthy snack or skip breakfast entirely.
C. Working out in the morning when you're most energised, not only gets your day started on the right foot, but it's also beneficial to your physical and mental health.
D. If you get up early, you can reduce the amount of stress in your life and finish your work without feeling rushed or under any additional pressure.

20   A net with different sides is shown below.

If the net was folded into a cube, which of the following would be a possible output?

A.   B.   C.   D.

21   Addison and Aurora 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
5	3	2	8	7	0	4	7	9	5	6	7	8	7	4	6	4	8	1	7	6	9	5	6	1	2

For example, the word CLOWN would be written in the code 2-7-4-5-7.

To test the system, Addison writes four words in the code and sends them to Aurora. Aurora tries to decode them, and gets the following answers:

FAITH
BUNCH
MAYBE
SIZES

Aurora is confident she has decoded 3 of these words correctly, but she is unsure about the other one.

Which word is Aurora unsure about?

   A.   FAITH
   B.   BUNCH
   C.   MAYBE

D. SIZES

22   Three pupils - Jona, Samantha, and Almira were suspected of not paying for their food in the canteen. The Prefect of Discipline knows that two of them are guilty. When faced with a sanction, they made the following statements:

Jona: Samantha is guilty.
Samantha: I am not guilty.
Almira: Samantha is not guilty.

However, only 1 of the three is telling the truth. The other two students are lying.

Which of the following statements must be true?

   A.   Almira is guilty but not lying.
   B.   Samantha is guilty and lying.
   C.   Jona is lying.
   D.   Samantha is not guilty but lying.

23   In this world, every child should greatly appreciate their parents. Parents are the ones that go through the most hardships when raising their children to live a healthy and happy life. Every parent wants to see their kids happy and content in life. They should all have the right to let their children pursue better careers because children occasionally end up making poor professional judgments. Parents can at least help their children make wise decisions even if they are not the ones working on their own job paths. No parent wants to make a poor choice that would harm their child's future.

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

   A.   Parents should not make career decisions for their children because the constant pressure to live up to the parents' expectations has a negative impact on the child's mental health.
   B.   Parents who choose their child's career are more likely to be supportive of their child's future. Many parents who have failed in the past relive their aspirations in their children.
   C.   Children should be free to pursue a career that makes them happy or that they are passionate about.
   D.   Parents must remember that their children's careers are not their own. Their children can make mature decisions based on their skill set.

24   Harriet wants to buy 20 pairs of sandals for her online shop. Four manufacturers contacted Harriet and gave her special offers as shown in the table below:

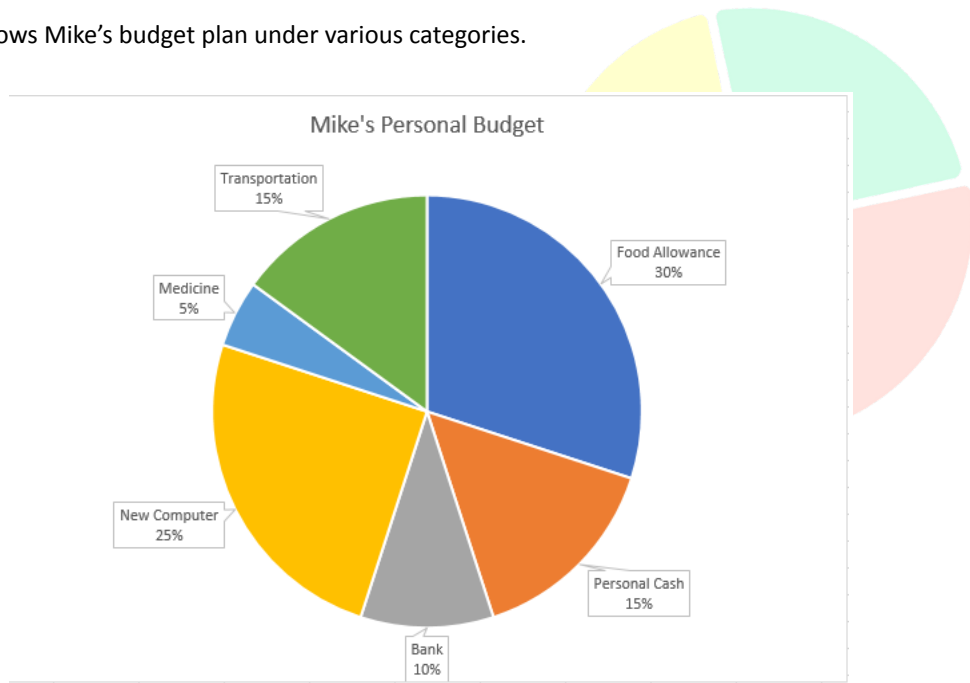|	Standard price for a pair of shoes	Special Offer
Shop A	$125	No Special Offer
Shop B	$120	Buy 10 pairs, get 10% off
Shop C	$115	Buy 4 get 1 free
Shop D	$130	20% off final price

Harriet wants to buy all pairs of sandals from the same manufacturer and she wants to spend as little as possible.

Which shop should Harriet buy all pairs of sandals?

   A.   Shop A
   B.   Shop B

C. Shop C
D. Shop D

25 The pie chart below shows Mike's budget plan under various categories.

Mike's Personal Budget

Transportation 15%
Food Allowance 30%
Medicine 5%
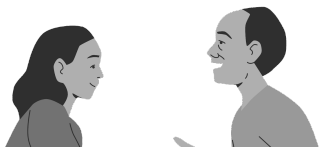New Computer 25%
Personal Cash 15%
Bank 10%

If the sum of the two categories is represented by 144 degrees of the whole pie chart, what portions of Mike's budget are allocated for it?

A. Medicine and Transportation
B. Bank and New Computer
C. Food Allowance and Personal Cash
D. New Computer and Transportation

26

On any given day in Australia, approximately 43,000 children have a parent in prison. According to researchers, roughly half of all adults who end up in prison are parents. When an adult is arrested and imprisoned, there is a good chance they are the parent of someone.

Elijah: "Let's go to the new ice cream store! I heard it is owned by Sally's mom."
Alexis: "Don't buy there, Elijah. Don't you know that Sally's mom just got out of prison? Her mom is not trustworthy."

Which of the following sentences shows the mistake Alexis has made?

A. Alexis attempts to discourage Elijah from buying in the ice cream store because of the history of Sally's mom.
B. Alexis tries to make Elijah believe in something because it has been done in the past until now.

C. Alexis gives Elijah two choices, where in fact, there are a lot of choices that Elijah can choose from.
D. Alexis gives personal attacks on Sally by discriminating against her personality, character, and looks.

27 The prices for the National Basketball League games are shown in the table below. One ticket per person is required to watch the basketball games.

Pass for 1 day	Pass for 3 days (consecutive)	Pass for 5 days (consecutive)
$170	$250	$340

Kirby, Brylle, Aaron, and Benjamin are planning to watch the live basketball games on the following dates: 7, 8, 9, 17, 18, 19, 20, 21, 29.

How much is the cheapest valid combination that the four friends could use?

A. $4,040
B. $3,040
C. $760
D. $720

28 A few statements have been made, and two conclusions have been drawn from them. Assume the statements are true, and then determine which of the given conclusions follows the statement logically.

Statement 1: All soft drinks are water.
Statement 2: All water is oil.
Statement 3: Only a few oils are fluid.

Conclusion 1: All soft drinks are oil.
Conclusion 2: No water is fluid.

Which one of the following statements is true?

A. Both conclusions 1 and 2 follow.
B. Only conclusion 1 follows.
C. Only conclusion 2 follows.
D. Neither conclusion 1 nor conclusion 2 follows.

29 Travelling is an important part of life because it is the best way to get away from a hectic schedule. Travelling is a great way to relieve stress, anxiety, and depression. It also benefits both mental and physical health. We only have one life, and we should be grateful as it makes us the most advanced creatures on the planet. People not only get to see the beauty of nature, but also different geographies, topographies, and people. Travelling is about discovering new places, cultures, cuisines, rituals, and ways of life.
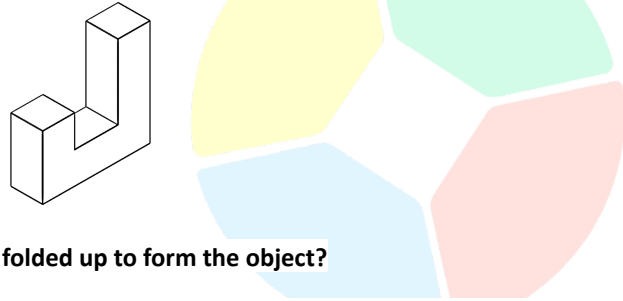
Which of the following best expresses the main conclusion of the argument?

A. Travelling allows us to make friends and connections with people from all over the world. Making connections abroad is one of the smartest things you can do today.
B. Travelling is unquestionably the best option for those who believe in living a healthy lifestyle. Travellers are less likely to suffer from health problems because they are more active.
C. The ability to comprehend and develop an appreciation for nonverbal communication is another significant benefit
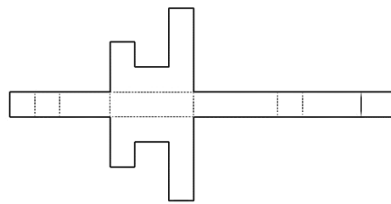
of travelling.

D. Travelling is essential for mental development and happiness. Travelling is an excellent way to maintain a consistent pattern of learning and awareness throughout one's lifetime.

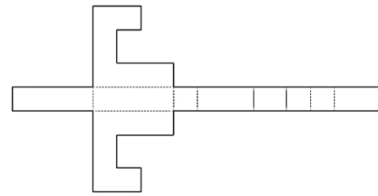**30**   Please refer to the following object below.

As shown above, which of the nets below CANNOT be folded up to form the object?
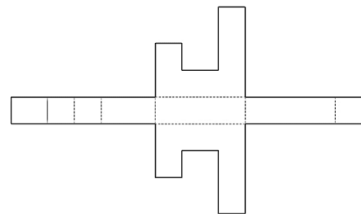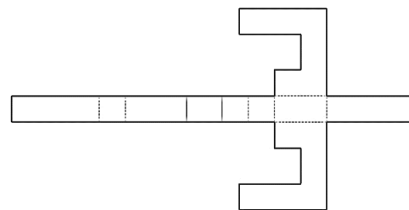
A.

B.

C.

D.

31

Before the National Elections on May 9, the Commision on Elections decided to invite each presidential candidate to an open forum for them to answer essential questions regarding the social issues that the country is facing. Each candidate will have their time to speak in front of the audience.
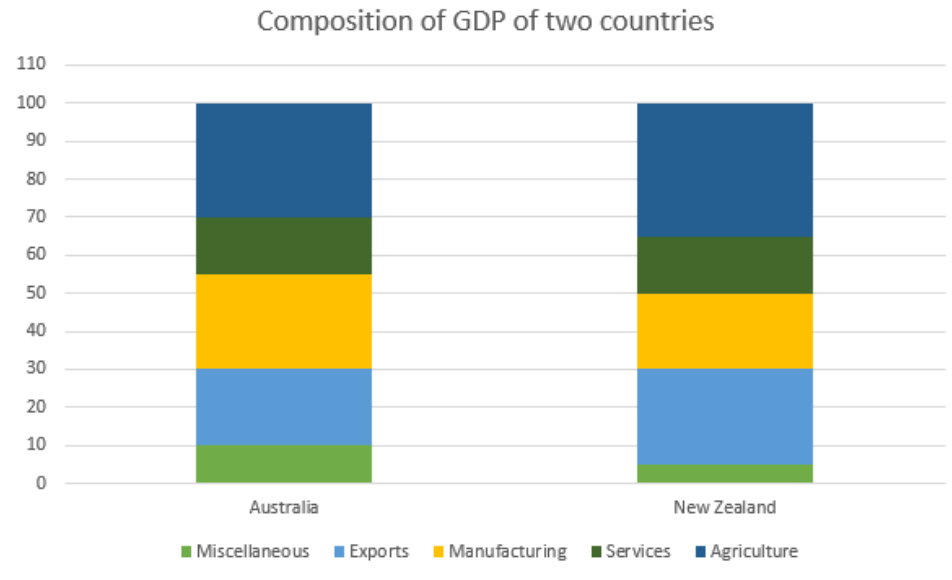

Moderator: "Mr Timmy Jr., what is your final message to the people of this country?"

Timmy Jr.: "Winning the national elections is a priority. For the voters, vote for me or live through six more years of poverty."

Which of the following sentences shows the mistake Timmy has made?

A. Timmy encouraged the people to vote for him because the majority of his supporters also supported him in the campaign period.
B. Timmy provided two extreme options for the voters, misrepresenting the consequences of choices that are available when making a decision.
C. Timmy personally attacks other candidates in the open forum to show the people how dominant he is in debates.
D. Timmy thought that what is true for the whole is also true for the parts.

32   The following bar chart depicts the composition of GDP of the two countries (Australia and New Zealand).

Composition of GDP of two countries

If both countries' total GDP is the same, by what percentage is Australia's agricultural income higher than New Zealand's service income?
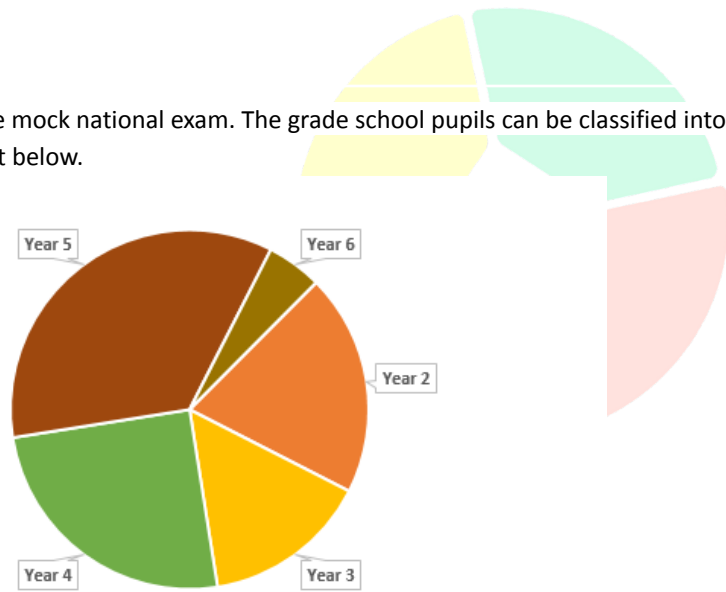
A. 100%
B. 200%
C. 133.33%
D. 66.67%

33   In many schools, using a cell phone in class is prohibited. Cell phones ought to be prohibited in schools since they might be hazardous, distract kids, and enable cheating. On the other hand, students in school are distracted by cell phones. When students text in class, other students notice, which makes it extremely difficult for them to study. Additionally, if it rings during class, the teacher may have to pause what she is saying and focus everyone's attention on the cell phone.

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

A. Cyberbullying can be harder to identify than other forms of bullying, making it tough for teachers to identify and prevent it when it occurs.
B. Using social media in class can keep students interested and encourage them to participate in discussions. Some teachers incorporate digital platforms into lessons to encourage participation.
C. While cell phones can encourage participation by providing multiple channels, they can also lead to less in-person discussion and learning opportunities.
D. Mobile phones should be permitted in schools because they can be used for educational purposes. They can also be

put in silent mode to avoid disruption in classes.

34 There are 1,000 pupils who participated in the mock national exam. The grade school pupils can be classified into the following categories, as shown in the pie chart below.

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

A.

Variable	Year 2	Year 3	Year 4	Year 5	Year 6
Value	200	150	250	350	50

B.

Variable	Year 2	Year 3	Year 4	Year 5	Year 6
Value	200	350	150	200	100

C.

Variable	Year 2	Year 3	Year 4	Year 5	Year 6
Value	350	75	75	300	200

D.

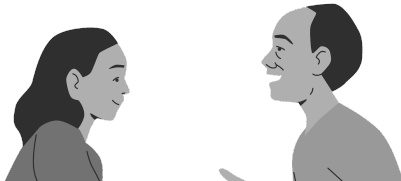| Variable	Year 2	Year 3	Year 4	Year 5	Year 6
Value	250	250	200	150	150

35 In Australia, the number of officially registered homeschooled kids rose from 10,000 in 2011 to nearly 20,000 in 2018. The ability of parents to choose their child's curriculum is the most significant advantage of homeschooling. Parents have control over what their children study, when they study, and for how long. Nobody knows their child as they do. And no one cares more about their child's development than they do. Thus, children are better off when their parents become their teachers.

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

A. Schools prepare students to meet the fierce competition that they will face in real life. Homeschooling, on the other hand, does not enable them to compete with other children.

B. Home-schooled children may feel lonely, socially inept, and isolated, especially if they do not have siblings.

C. A parent's educational credentials do not automatically qualify him or her as a good teacher. Parents may not have been trained to teach, making homeschooling difficult for them.

D. If a child is suffering from social anxiety, depression, or brain health issues, one advantage of homeschooling is the opportunity to focus on mental and emotional well-being.

36   Drunk driving is prohibited in Australia. Anyone caught by the police will have to pay a fine of $4,000 and will receive a licence disqualification worth 6 months or more and possible prison time. One night, David was caught by Jasmine, a policewoman, and he was caught guilty of being under the influence of alcohol.

Jasmine: "You are obviously drunk, Mr David. I need you to surrender your licence."
David: "No, I am not drunk. I just had a few beers before driving. I am fine."

Which of the following sentences shows the mistake David has made?

A. David blamed his friends for giving him a few beers, which resulted in him being apprehended by the police.

B. David made personal attacks on the arresting officer even if he was clearly guilty of drunk driving.

C. David disqualifies the claim because of the past history of Jasmine, the policewoman.

D. David used an ambiguous reason for drinking a few beers to escape from the penalty of drunk driving.

37   Eight chess prodigies are competing in the World Chess Championship. Each participant receives up to 21 points in each round. The results for the first three rounds are shown below:

	Round 1	Round 2	Round 3
Vernon	20	15	15
Nicole	21	17	16
Dan	19	19	17
Jester	18	18	17
Sane	17	18	17
Dexter	19	15	17
Simon	18	19	21
Eddy	16	15	18

One competitor will definitely win the competition outright if they score enough points in the fourth and final round.

What is the minimum score that this chess prodigy needs to guarantee the win?

- A. 17
- B. 18
- C. 19
- D. 20

38 The prices for the newly opened Ocean park are shown in the table below.

Pass for 1 day	Pass for 3 days (consecutive)	Pass for 5 days (consecutive)
$75	$145	$210

Alexander, Jordan, and Reynald will need a ticket for the following days of the month: 3, 4, 13, 14, 15, 16, 17, 22, 23, 24

How much is the cheapest valid combination the three of them could use?

- A. $1,515
- B. $590
- C. $2,250
- D. $505

39 Joseph is planning to take subjects ahead of his class. He put up a list of subjects he could choose. He plans to pick his top four subjects but he needs to choose one subject per list.

List 1	List 2	List 3	List 4
English	Health	Economics	Coding
Music	Earth Science	History	Oral Communication
Mathematics	Physics	Effective Communication	Financial Management
Biology	Music	Linguistics	Mathematics

Joseph's first three choices were: Music, Mathematics, and Effective Communication.

What subject can Joseph not take?

- A. Biology
- B. Economics
- C. Coding
- D. Physics

40 Denise wants to tile her kitchen floor and is trying to decide between her four favourite tiles. However, only three of them are suitable for the job as one of them won't cover the floor without leaving numerous gaps.
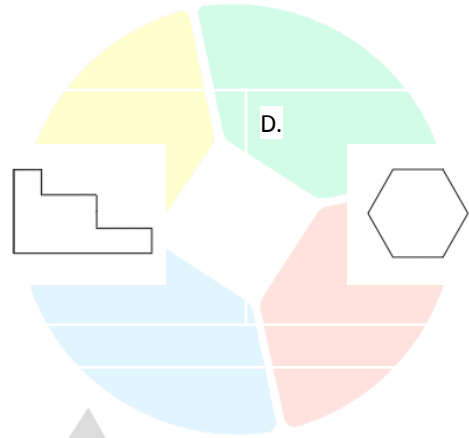
Which one is it?

A.

B.

C.

D.