

Y4 OC SAMPLE Thinking Skills Questions

Data Calculations

Ray and his team were assigned to represent their country in a computer coding competition in Japan. He will be staying there from November 15 to 21, 2022. They will be needing a working space that has an internet speed of at least 100mbps and a large whiteboard for their whole stay. Ray listed the available working spaces he found:

WORKING SPACE	RATE PER DAY	INTERNET CONNECTION (PER DAY RATE)	
Workaholics Cafe	\$187	\$21 (125 mbps)	\$8
Einstein Park	\$191	\$19 (50 mbps)	\$9
Scholars' Hub	\$184	\$23 (150 mbps)	\$6
CWork dot com	\$194	\$16 (100 mbps)	\$7

Ray wants to go for the most expensive option since they are sponsored for the competition.

How much would be the total if Ray and his team go for the most expensive option?

- A. \$1519
- B. \$1633
- C. \$1540
- D. \$1640

Ans: Ray and his team will be in Japan from November 15 to 21, 2022, for a total of 7 days. We have to add all the expenses for a day and then compute the shops' total for 7 days.

WORKING SPACE	RATE PER DAY	INTERNET CONNECTION (PER DAY RATE)	LARGE WHITEBOARD (PER DAY RATE)	TOTAL RATE PER DAY	TOTAL RATE FOR 7 DAYS
Workaholics Cafe	\$187	\$21	\$8	\$216	\$1512
Einstein Park	<i>Does not meet one of Ray's conditions. The internet speed has to be at least 100 mbps</i>				
Scholars' Hub	\$184	\$23	\$6	\$213	\$1491
Work dot com	\$194	\$16	\$7	\$217	\$1519

Hence, Ray and his team will have a total of \$1519 spent for the most expensive option.

Option A is the correct answer.

Fallacy Detection

Ms Betty is the teacher of Sunny Day Elementary School. One morning, she found out that her beloved flower vase in the classroom was broken. She then checked the class and saw Kendrick, her student, which brought her to a conclusion.



Ms Betty: “Kendrick, I know that you were the one who did it because no one has shown me evidence that you’re innocent.”

Which among the options best describes the flaw in Ms Betty’s statement?

- A. Ms Betty did not consider that the vase might have been broken by a gust of wind or a cat.
- B. Ms Betty did not properly look around her class to see if there were others she can blame.
- C. Ms Betty based her claim on an unfair prejudice towards Kendrick due to his past actions.
- D. Ms Betty assumed that a lack of evidence that disproves her claim meant she was right.

Ans:

Ms Betty’s grounding on her claim was lacking since she assumed that if no one could debunk her claim, then the said claim should be true. The burden of providing evidence to validate a claim rests on the one who presented the same argument that Ms Betty evidently failed to do.

Thus, D is the correct answer.

Decoding of Artificial Language, Letter and Symbol Series

Miranda has eight cubic bricks. Each brick has a different letter on each face.

The letters on each brick are:

- Brick 1 - MOABLK
- Brick 2 - CLKAVF
- Brick 3 - NVXZAF
- Brick 4 - QGNLJP
- Brick 5 - CTEAFV
- Brick 6 - EPFWXZ
- Brick 7 - DAKFNS
- Brick 8 - PUQNRZ

Which one of the following can Miranda spell out using her 8 bricks?

- A. CONCLUDE
- B. BANNERS
- C. OFFSHORE
- D. SCRUTINY



Ans:

Miranda can only spell the word **CONCLUDE**. The other words are impossible to spell due to the lack of letters.

Option A is the correct answer.

Analysing Arguments and Drawing Conclusions

The recent adaptation of "The Sandman" was somewhat shocking for viewers since not only was it quite different from the original source, but it was also surprisingly good as it tried to stray away from what the book initially told. It became a masterclass in reminding viewers that no one should be able to gatekeep or prevent people from including themselves in art appreciation.

Which among the following shows the main conclusion of the passage?

- A. The Sandman was a hit among viewers due to its unique approach to the plot.
- B. The Sandman is an interesting show that strayed away from the source but in a good way.
- C. Gatekeepers ruin the entire experience of people trying to enjoy media and art.
- D. Straying away from the original source material is a common practice in Hollywood.

Ans:

All the statements point toward the conclusion found in Option B. The Sandman is one of those interesting movies that surprisingly pulls off straying away from the source material properly.

Thus, B is the correct answer.

Logical Statements

Callie is opening her restaurant business by the end of 2022 and is now looking for some staff. She needs to hire one manager who can manage the waiters, cashiers, and other employees of the restaurant. Callie has some specifications that she wants the future manager to have. She is looking for someone who is a graduate of hotel and restaurant management, has over 5 years of managerial experience, has been in the industry for more than 8 years, has a clean police record to ensure that the person is honest, and has a pleasing personality. Currently, she has four short-listed applicants.

Naruto - A tourism graduate of batch 2000 who has 6 years of managerial experience, has a clean police record, has been in the industry for 9 years, and has a pleasing personality.

Sakura - A hotel and restaurant management graduate of batch 2005 who has 5 years of managerial experience, has been in the industry for 11 years, has a clean police record, and has a pleasing personality.

Sasuke - A hotel and restaurant management graduate of batch 2008 who has 6 years of managerial experience, has been in the industry for 7 years, has a clean police record, and has a pleasing personality.

Kakashi - A hotel and restaurant management graduate of batch 2012 who has been working in the industry the same year he graduated, has been promoted as manager in his second year at work, has a clean police record, and has a pleasing personality.

Who among the applicants should Callie consider?

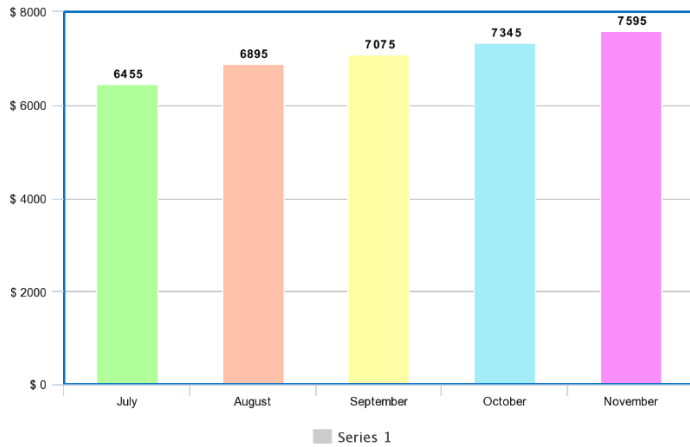
- A. Either Naruto or Sakura
- B. Sakura
- C. Either Sasuke or Sakura
- D. Either Sakura or Kakashi
- E. Kakashi

Ans: Callie should consider Kakashi only as he possesses all the qualities she seeks. Naruto is not a hotel and restaurant management graduate. Sakura doesn't have over 5 years experience as a manager, and Sasuke lacks experience in the industry.

Option E is the correct answer.

Relevant Selection

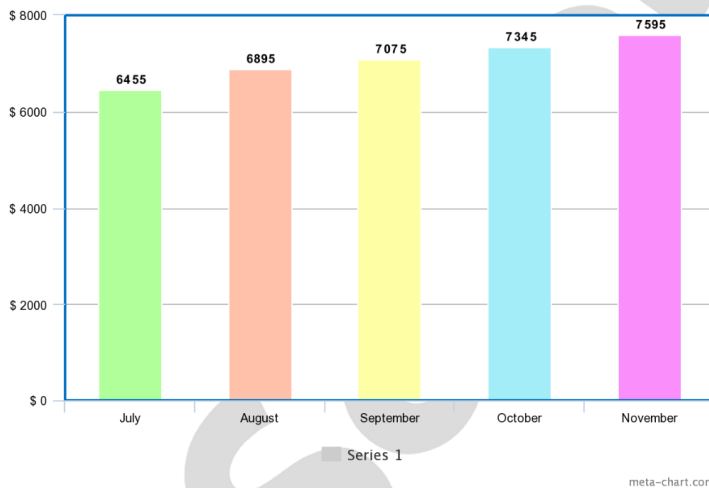
Mike owns a car repair shop somewhere in Melbourne. The bar chart shows Mike's monthly earnings during the past five months



Which months had the most difference between Mike's monthly earnings?

- A. August and July
- B. September and August
- C. October and September
- D. November and October

Ans:



November - October = $\$7595 - \$7345 = \$250$
October - September = $\$7345 - \$7075 = \$270$
September - August = $\$7075 - \$6895 = \$180$
August - July = $\$6895 - \$6455 = \$440$

August and July had the biggest difference between Mike's monthly earnings from his car repair shop. Even without doing any computations, it can be seen from the gap between the bars which consecutive months have the greatest difference.

Option A is the correct answer.

Logic Games

I have a six-digit confirmation code for my email account.

The sum of the third and sixth digits is 6.

The second digit is the sum of the last three digits.

By adding 3 to the first digit, you get the third digit.

The sixth digit is 2.

Both the fourth and fifth digits are thrice the first digit.

What is the second digit?

- A. 6
- B. 8
- C. 5
- D. 7

Ans: The sixth digit is two: 2

The sum of the third and sixth digits is 6: $?+2=6$ or $6-2=4$

 4 2

By adding three to the first digit, you get the third digit: $?+3=4$ or $4-3=1$

1 4 2

Both the fourth and fifth digits are thrice the first digit: $1 \times 3=3$

1 4 3 3 2

To find the second digit, add the last three digits; $3+3+2=8$

Therefore, B is the correct answer.

Analysing and Evaluating Arguments, Theme Detection

The friends you have will play a vital role in your personal and social development. These people are often the ones you will spend your time with now and in the future. When problems arise, you lean on your friends for guidance and help. This is why we ought to choose friends who are financially capable and intellectually smart. These standards ensure that we get genuine and long-lasting friendships that will make us happy and fulfilled in the long run.

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

- A. Friends are disposable, thus we must not put so many standards on the friends we make.
- B. Friendships become genuine and satisfying when you share a strong bond with one another.
- C. A genuine friendship is one that shares material things with one another.
- D. For a friendship to be long-lasting, it must be mutual between both parties

Ans: The argument posits that having financially capable and intellectually smart friends assures us of beneficial and happy friendships. This is refuted by the statement in Option B, which states that friendships actually become satisfying when both parties share a strong bond. This implies that we do not necessarily have to only have friends that are rich and smart, but rather we can make friends with anyone regardless of status as long as we are legitimately happy and connected with them.

Option B is the correct answer.

Logical Statements

“Please do not use the lift while going down” - instruction on the top floor of a five-storey building.

Assumptions:

While going down, the lift is unable to carry any load.
Provision of lift is a matter of facility and not of right.

Which of the following assumptions follows?

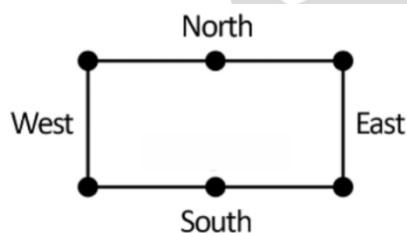
- A. Only assumption I follows.
- B. Only assumption II follows.
- C. Assumption I and II follow.
- D. Neither assumption I nor II follows.

Ans: The statement requests people not to use the lift while moving down. This implies that the lift may be used to move up. The request has been made so that more people can use the lift for ascending, which would otherwise cause more physical stress than going down the stairs. So, only assumption II follows.

Option B is the correct answer.

SPATIAL REASONING (2D & 3D)

In order to prevent litter, a city park is surrounded by rubbish bins. Some city council members favour steel rubbish bins, while others favour rubber, but both kinds are present at the borders of the park. One rubbish bin that is either rubber or steel is present at each point in the following diagram of the park:



The type of rubbish bin that is present at each of the six points is governed by the following conditions.

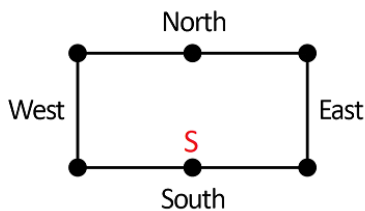
1. Each steel rubbish bin must be adjacent to at least one other steel rubbish bin.
2. Rubber rubbish bins cannot have steel rubbish bins on both sides of them.
3. The rubbish bin on the southwest corner is rubber.
4. The rubbish bin in the middle of the northside is steel.
5. At least two rubbish bins on the corners must be rubber.
6. A rubber rubbish bin at one certain corner of the park must be adjacent to another rubber rubbish bin.

If the rubbish bin in the middle of the south side is steel, then which of the following must be true?

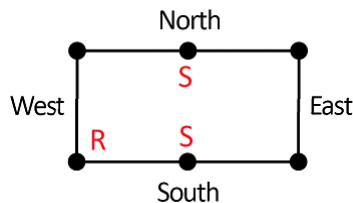
- A. The rubbish bin on the northeast corner is rubber.
- B. The rubbish bin on the southeast corner is rubber.
- C. The rubbish bin on the northwest corner is rubber.
- D. None of the above.

Ans:

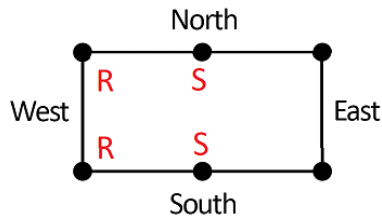
- Know that there are two rubbish bins: **Rubber (R)** and **Steel (S)**.
- In the question, it is already given that in the middle of the South side is steel.



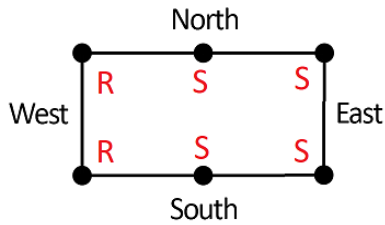
- The third condition says that the rubber bin is placed in a Southwest corner. Also the fourth condition says that the Northside is Steel.



- Looking at the second condition, it can be assured that the Northwest corner has a rubber bin.

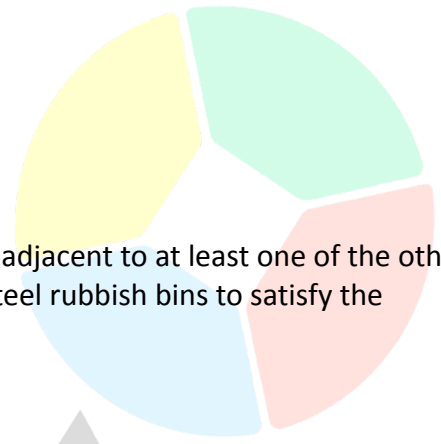


- The first condition states that every steel rubbish bin has to be adjacent to at least one of the other steel rubbish bins. Thus, Northeast and Southeast have to be steel rubbish bins to satisfy the condition.



- Conditions 5 and 6 satisfy the final layout.

Seeing the complete allocation of bins for all directions, **option C is the correct answer.**



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