

Y5 Selective SAMPLE Thinking Skills Questions

Data Calculations

Kyle heard on the news that a strong typhoon would be hitting their city in a few days. He thought of preparing, so he listed all the things he needed to buy for his emergency kit from the store. He needs the following items: One radio, two heavy-duty flashlights, four thick blankets, and six canned goods. There are five shops where he can go and buy the items. The shops and prices of the items are shown in the table below.

ITEM	SHOP A (per item)	SHOP B (per item)	SHOP C (per item)	SHOP D (per item)	SHOP E (per item)
Radio	\$56	\$53	\$55	\$58	\$54
Heavy-duty Flashlight	\$24	\$27	\$29	\$26	\$30
Thick Blanket	\$18	\$14	\$20	\$19	\$19
Canned Goods	\$3	\$3	\$4	\$3	\$4

Kyle wants to spend as little as possible.

If he goes to the cheapest shop, how much would he have to pay for all the items?

- A. \$156
- B. \$175
- C. \$181
- D. \$196
- E. \$199

Ans: We know he needs the following items: One radio, two heavy-duty flashlights, four thick blankets, and six canned goods.

ITEM	SHOP A (per item)	SHOP B (per item)	SHOP C (per item)	SHOP D (per item)	SHOP E (per item)
Radio	\$56	\$53	\$55	\$58	\$54
Heavy-duty Flashlight	\$24 x 2 = \$48	\$27 x 2 = \$54	\$29 x 2 = \$58	\$26 x 2 = \$52	\$30 x 2 = \$60
Thick Blanket	\$18 x 4 = \$72	\$14 x 4 = \$56	\$20 x 4 = \$80	\$19 x 4 = \$76	\$19 x 4 = \$76
Canned Goods	\$3 x 6 = \$18	\$3 x 6 = \$18	\$4 x 6 = \$24	\$3 x 6 = \$18	\$4 x 6 = \$24
TOTAL	\$194	\$181	\$217	\$204	\$214

Shop B offers the cheapest items and Kyle would only have to pay \$181 for all the items.

Option C is the correct answer.

Fallacy Detection

For centuries, residents in Bikini Bottom City, young and old, believe that when you visit the riverside at midnight, you will meet an old man who will curse you with years of bad luck. For so long, people have been avoiding the area every night out of fear of the old saying.



Jane: "No one has proven that the old man on the riverside is real. It should definitely not exist."

Which one of the following best expresses the flaw in the statement?

- A. Jane concluded that they are not real because their presence has never been proven.
- B. Jane has attempted to refute the existence of elves by attacking the residents' views
- C. Jane believed that an argument's beginnings should define its foundation.
- D. Jane's argument lacks any evidence to support or refute it.

Ans: This is an example of an appeal to ignorance, which says that a proposition must be true simply because it has yet to be proven false or because no evidence to the contrary exists. In this example, Jane asserts that the old man on the riverside does not exist simply because no one can disprove its existence.

Option A is the correct answer.

Decoding of Artificial Language, Letter and Symbol Series

The following words have been translated from artificial language.

- "tlop phrtu" means "blue water"
- "haprteile erws" means "motorbike race"
- "tlophaperteile" means "bluemotorbike"

Which word could mean "deepwater"?

- A. Eltrsphtu
- B. Eltrphrtua
- C. Elrtphrtu
- D. Eltrpoerws
- E. Elrttlop

Ans:

We can deduce from the pattern of words and their corresponding meanings that the artificial language and their English translation have the same number of alphabet letters. We know from the given words that "phrtu" means "water," and the word preceding it must have four alphabet letters. Therefore, "deep" is represented in artificial language by the term "elrt."

Option C is the correct answer.

Analysing Arguments and Drawing Conclusions

Fans of the DC universe and Marvel universe usually find it difficult to have some common ground whenever a random online question of "Which cinematic universe is better?" is posted. Marvel fans argue that Marvel is better because their characters are more relatable and have more nuanced arcs. DC even hardly produces new films for its fans, keeping its momentum in the entertainment industry weak.

Assuming you're a DC fan, what would you say to best weaken the claim of Marvel's fans?

- A. DC's characters are physically stronger than Marvel's characters, making DC better.
- B. DC focuses on making their characters unique rather than relatable.
- C. DC invests more time in character storylines, making their characters relatively more impactful.
- D. DC's films, although few compared to Marvel, have sold out millions of tickets worldwide

Ans: There are three key points that Marvel fans have pointed out: (1) Marvel's characters are more relatable; (2) Marvel's characters have more developed arcs or storylines; and (3) DC produces fewer films than Marvel.

The only option that weakened, not necessarily nullified, the aforementioned points is the statement in option C. First, it mentioned how DC invests more time in developing character storylines, which weakens the claim about DC's characters being less nuanced than Marvel's. Although the argument of investing more time in developing characters does not directly negate the point of DC producing fewer films than Marvel, it still kind of weakens such a point because it justifies the time DC fans have to wait to get a new DC movie. Lastly, the claim that DC characters are more relatively impactful weakens the point that Marvel's characters are more relatable. Between the lines, it forwards the idea that characters are better when they are more impactful than relatable. After all, the purpose of a character being relatable is for it to be impactful.

Option C is the correct answer.

Logical Statements

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.

Statements:

A new wing in Mercy West Medical Hospital was opened to give space for more outpatient checkups.

The Mercy West Medical Hospital has grown from accommodating 300 inpatients to 550 inpatients every day.

Which of the following must be true?

- 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.

Ans:

In this case, we cannot ascertain the connection between statements I and II because they refer to different kinds of patients. Statement I refers to outpatients while statement II refers to inpatients.

Option C is the correct answer.

Relevant Selection

Emma wants to buy 15 of Taylor Swift's new albums. Four shops sell the albums she wants. The album prices in each shop are shown in the table below.



SHOP	PROMO
SHOP A	15% off on the first two items
SHOP B	Buy 3, get 2 free
SHOP C	Regular Price
SHOP D	10% off on the total bill

Emma wants to buy all the albums from one store and spend as little as possible.

Which shop should Emma buy the albums from?

- A. Shop A
- B. Shop B
- C. Shop C
- D. Shop D

Ans:

Emma needs to purchase from the store that will cost her the least.

SHOP	PRICE / ALBUM	PROMO	TO BE PAID
SHOP A	\$10	15% off on the first two items	\$147
SHOP B	\$11	Buy 3, get 2	\$99
SHOP C	\$9	Regular Price	\$135
SHOP D	\$13	10% off on the total bill	\$175.5

Since Shop B will only cost her \$99, she should purchase from this store.

Therefore, B is the correct answer.

Logic Games

There are five cards in a deck, starting with a jack, a king, a queen, an ace, and then a 10. Two cards were moved from their initial placement to a different position. It was certain that jack had not been moved. After the change, none of the adjacent cards in the original formation are adjacent in the new one.

What could be the third card in the new formation?

- A. Jack
- B. Ace
- C. King
- D. Queen

Ans:

Original formation: Jack, King, Queen, Ace, 10

Considering no originally adjacent cards remain to be adjacent after the change, one card has to be placed between jack and king and king and queen.

Jack __ King __ Queen

Since ace and queen are adjacent in the original formation, ace has to be placed between jack and king. This means 10 has to be placed between king and queen. **New formation:** Jack, Ace, King, 10, Queen

Option C is the correct answer.

Analysing and Evaluating Arguments, Theme Detection

Mobile phone tracking is a process for identifying the location of a mobile phone, whether stationary or moving. Parents are not supposed to install a tracking device on their children's phones since spying on their children will not make them safer. Indeed, it can have a variety of unintended consequences, such as the development of mutual distrust between the parent and the children. It was also found that children who have controlling parents tend to fear mistakes and feel more exhausted.

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

- A. Using a tracking app allows parents to let their kids go out alone while monitoring their safety.
- B. Parents may eventually end up stressing their kids because of the tracking device.
- C. Tracking their child is a tremendous invasion of privacy especially if the child is a teenager/young adult already.
- D. If parents are scared their child may lie, they must create a stronger relationship and win their trust.

Ans:

The main argument is concerned with the harmful implications of mobile tracking to the relationship between parents and their children. Option A best weakens the argument because it validates the usefulness of mobile tracking especially when the kids go out to have fun. On the other hand, the other options don't support the need for mobile tracking. Option B talks about how it leads to self-consciousness among kids because they wouldn't feel free with the device on. Option C talks about how intrusive this is to the kids' privacy. Option D encourages the creation of strong parent-child relationships to reduce the chances of lying as a means of replacing the need for the tracking device.

Option A is the correct answer.

Logical Statements

Assume that published books are classified as novels, short stories or story books according to the following classification:

- A novel has at least 300 pages.
- A short story has at most 100 pages.
- A story book has at most 500 pages.

What would a 400 page book be classified as?

- A. Novel.
- B. Either a novel or a story book.
- C. Story book.
- D. Not enough information.

Assume that published books are classified as novels, short stories or story books according to the following classification:

- A novel has at least 300 pages.
- A short story has at most 100 pages.
- A story book has at most 500 pages.

What would a 400 page book be classified as?

- E. Novel.
- F. Either a novel or a story book.
- G. Story book.
- H. Not enough information.

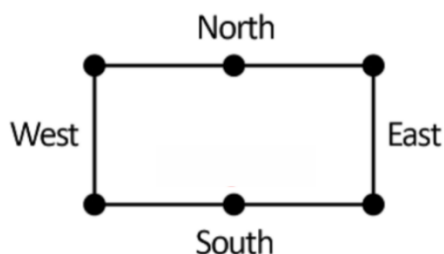
Ans:

A book that has 400 pages fits two of our criteria, it has at least 300 pages and at most 500 pages, therefore it will be classified as either a novel or a story book.

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 on 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 rubber rubbish bin.
2. The rubbish bin on the southwest corner is rubber.
3. The rubbish bin in the middle of the north side is steel.
4. Three rubbish bins on the corners must be rubber.
5. Only one steel rubbish bin is adjacent to another steel rubbish bin, and it is on the southside.

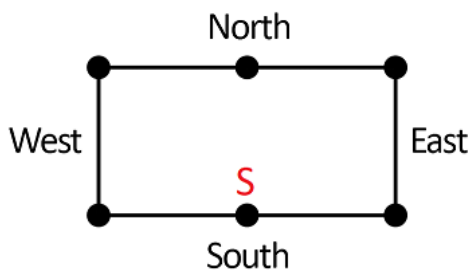
If the rubbish bin in the middle of the south side is steel, then which of the following must be true?

- 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 steel.
- D. None of the above.

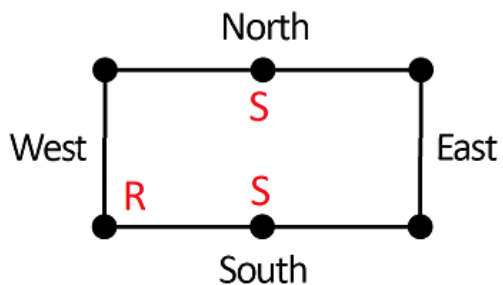
Ans:

Know that there are two rubbish bins: Rubber (R) and Steel (S).

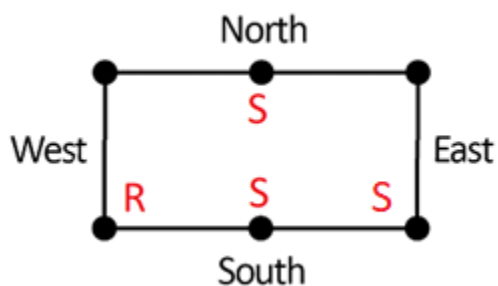
In the question, it was already given that in the middle of the southside is steel.



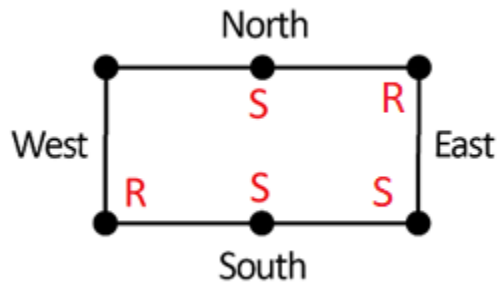
The second condition says that a rubber bin is placed in the southwest corner. Also, the third condition says that the northside is steel.



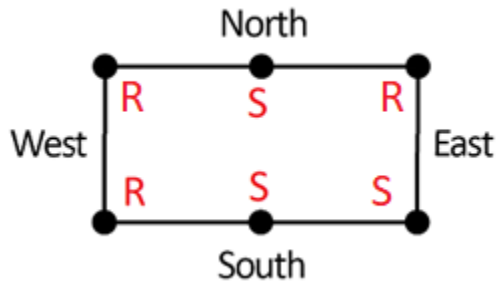
Looking at the fifth condition, a steel rubbish bin can be placed in the southeast corner.



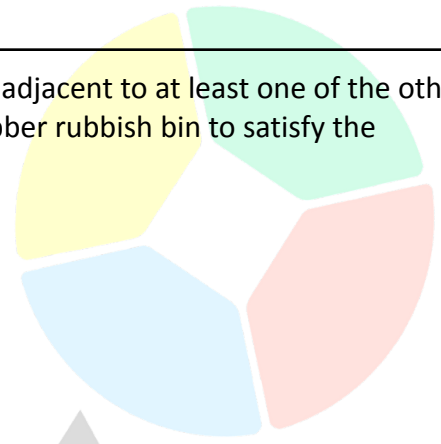
- The first condition states that every steel rubbish bin has to be adjacent to at least one of the other rubber rubbish bins. Thus, the northeast corner has to be a rubber rubbish bin to satisfy the condition.



- To satisfy condition number 4, a rubber rubbish bin is placed in the northwest corner.



Seeing the complete allocation of bins for all directions, **Option A is the correct answer.**



Schoolpark