

Cornell Critical Thinking Test Series

THE CORNELL CLASS-REASONING TEST, FORM X

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Fill in the blanks when you are asked to do so:

Print your last name only _____

Print your first and middle names _____

Your age on your last birthday _____ years

Your date of birth: month _____ day _____ year _____

Your grade _____

Your school _____

Your regular teacher at this time _____

Today's date: month _____ day _____ year _____

General directions:

This is a test to see how well you do a particular kind of thinking. We call it "class reasoning". You will see that you already do some of this kind of thinking. The sample questions make clear what is expected.

DO NOT GUESS WILDLY. There is a scoring penalty for guessing wrong. If you think you have the answer, but are not sure, mark that answer. But if you have no idea, then skip the question.

There are 6 sample questions, then 72 others. You should work as quickly as you can, but do not rush. This is not a speed test. Once you do the samples, you will be able to move right along.

DO NOT TURN THE PAGE UNTIL YOUR EXAMINER TELLS YOU TO DO SO.

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Answering the questions:

In answering each question, use only what you are told in that question. In order to do this, you should imagine that your mind is blank, because some of the things you are told are obviously false. Even so, you should suppose that they are true--for that question only.

You will be given one or more sentences with which to think. You will then be given another sentence, about which you must decide, using only what you were told.

There are three possible answers. This is what they mean:

- A. YES It must be true.
- B. NO It can't be true.
- C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

The meaning of the possible answers is given at the top of each page to help you remember. Each question has only one correct answer.

Mark your answers on this booklet by drawing a circle around the right answer. Remember: If you have no idea what the answer is, skip the question and go on to the next. Do not guess wildly, but if you think you know, then answer the question.

Sample questions:

Read the first question and see how it is marked.

1. Suppose you know that

Bill is next to Sam.

Then would this be true?

Sam is next to Bill.

- | |
|--------------------------------|
| 1. A. YES
B. NO
C. MAYBE |
|--------------------------------|

The correct answer is A, "YES". If Bill is next to Sam, then Sam must be next to Bill. It must be true, so a circle is drawn around "YES".

Here is another sample. This time you circle the answer.

2. Suppose you know that

The sparrow is over the hawk.

Then would this be true?

The hawk is over the sparrow.

- | |
|--------------------------------|
| 2. A. YES
B. NO
C. MAYBE |
|--------------------------------|

You should have circled B. "NO". If the sparrow is over the hawk, then the hawk can't be over the sparrow. It can't be true.

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

Circle the answer to this next sample. Be careful:

3. Suppose you know that

Jane is standing near Betsy.

Then would this be true?

Betsy is standing near Jane.

3. A. YES

B. NO

C. MAYBE

The correct answer is C, "MAYBE". Even if Jane is standing near Betsy, Betsy may be sitting. Betsy might be standing near Jane, but she might be sitting near Jane, or something else. You were not told enough to be certain about it, so "MAYBE" is the answer.

Circle the answer to this next sample question. Remember that your mind is supposed to be blank at the beginning of each question.

4. Suppose you know that

California is near
New York.

Then would this be true?

New York is near
California.

4. A. YES

B. NO

C. MAYBE

The correct answer is A, "YES", even though New York and California are not really near to each other. If California were near to New York, then New York would be near to California. It would have to be true.

Remember: You should suppose that what you are told is true--for the question you are answering.

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

So far in the sample questions you were told only one thing. In this one you are told two things. Circle your answer.

5. Suppose you know that

The pit is inside of the mouth of the fox.

The cherry is inside the mouth of the fox.

Then would this be true?

The pit is inside the cherry.

5. A. YES
 B. NO
 C. MAYBE

The correct answer is C, "MAYBE". All you are told is that the pit and the cherry are both in the mouth of the fox. There is no way to be certain whether the pit is in the cherry or not.

Here is the last sample question. This time the letters "X" and "Y" are used. They can stand for anything you like. Circle your answer.

6. Suppose you know that

X is next to Y.

Then would this be true?

Y is next to X.

6. A. YES
 B. NO
 C. MAYBE

The correct answer is A, "YES", no matter what X and Y stand for. If X is next to Y, then Y must be next to X.

Now that you have done the practice questions you probably understand what is expected. If you have any questions, ask them now.

DO NOT TURN THE PAGE UNTIL YOU ARE TOLD TO DO SO.

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

7. Suppose you know that

All the cars in the garage are Mr. Smith's.
 All Mr. Smith's cars are Fords.

Then would this be true?

All of the cars in the garage are Fords.

7. A. YES
 B. NO
 C. MAYBE

8. Suppose you know that

All John's pencils are blue.

Then would this be true?

At least some of John's pencils are not blue.

8. A. YES
 B. NO
 C. MAYBE

9. Suppose you know that

All the books about sailing are Bill's.
 All the green books are Bill's.

Then would this be true?

At least some of the green books are about sailing.

9. A. YES
 B. NO
 C. MAYBE

10. Suppose you know that

None of Jane's dolls have hats.

Then would this be true?

None of the dolls that have hats are Jane's

10. A. YES
 B. NO
 C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

11. Suppose you know that

All the red books are John's

Then would this be true?

All John's books are red.

11. A. YES

B. NO

C. MAYBE

12. Suppose you know that

All of Mary's books are about horses.
 None of the books on the shelf are about horses.

Then would this be true?

At least some of Mary's books are on the shelf.

12. A. YES

B. NO

C. MAYBE

13. Suppose you know that

All Jean's pencils are red.
 All the pencils on the table are red.

Then would this be true?

At least some of the pencils on the table are Jean's.

13. A. YES

B. NO

C. MAYBE

14. Suppose you know that

At least some of the children in the Martin family take out books from the library.
 All people who take out books from the library have library cards.

Then would this be true?

At least some of the children in the Martin family have library cards.

14. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

15. Suppose you know that

All X's are Y's.
 No Z's are Y's.

Then would this be true?

At least some X's are Z's.

15. A. YES

B. NO

C. MAYBE

16. Suppose you know that

At least some of Fred's pencils are green.

Then would this be true?

None of Fred's pencils are green.

16. A. YES

B. NO

C. MAYBE

17. Suppose you know that

None of Sue's books are about animals

Then would this be true?

None of the books about animals are Sue's.

17. A. YES

B. NO

C. MAYBE

18. Suppose you know that

At least some of Kate's pencils are blue.
 All the pencils in the box are blue.

Then would this be true?

At least some of Kate's pencils are in the box.

18. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

19. Suppose you know that

All Z's are Y's.
 All Y's are X's.

Then would this be true?

All Z's are X's.

19. A. YES

B. NO

C. MAYBE

20. Suppose you know that

None of the fifth grade boys are on the football team.
 John is a fifth grade boy.

Then would this be true?

John is not on the football team.

20. A. YES

B. NO

C. MAYBE

21. Suppose you know that

All the members of the school band have been in Boston.
 No one in Frank's class has been in Boston.

At least some members of the school band are in Frank's class.

21. A. YES

B. NO

C. MAYBE

22. Suppose you know that

All X's are Y's.

Then would this be true?

At least some X's are not Y's.

22. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

23. Suppose you know that

All boys are painters.
 All children are painters.

Then would this be true?

At least some children are boys.

23. A. YES

B. NO

C. MAYBE

24. Suppose you know that

All the second grade children are out on the playground.

Then would this be true?

All the children out on the playground are in the second grade.

24. A. YES

B. NO

C. MAYBE

25. Suppose you know that

At least some of the books on the table are about stars.
 None of Bob's books are about stars.

Then would this be true?

All of the books on the table are Bob's.

25. A. YES

B. NO

C. MAYBE

26. Suppose you know that

All the boys in John's class are football players.
 Fred is a football player.

Then would this be true?

Fred is not in John's class.

26. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

27. Suppose you know that

All the pets of the Greens won some prize in the pet show.
 Fido is one of the Greens' pets.

Then would this be true?

Fido won a prize in the pet show.

27. A. YES

B. NO

C. MAYBE

28. Suppose you know that

No animals are dogs.

Then would this be true?

No dogs are animals.

28. A. YES

B. NO

C. MAYBE

29. Suppose you know that

Eileen is one of the children on the playground.

Then would this be true?

Eileen is not one of the children on the playground.

29. A. YES

B. NO

C. MAYBE

30. Suppose you know that

All X's are Y's.

Then would this be true?

All Y's are X's.

30. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

<p>31. Suppose you know that</p> <p style="padding-left: 40px;">All cats can fly. All animals that can fly are black.</p> <p>Then would this be true?</p> <p style="padding-left: 40px;">All cats are black.</p>	<p>31. A. YES</p> <p>B. NO</p> <p>C. MAYBE</p>
<p>32. Suppose you know that</p> <p style="padding-left: 40px;">All the things in the trunk are Bill's. The brown baseball bat is Bill's.</p> <p>Then would this be true?</p> <p style="padding-left: 40px;">The brown baseball bat is in the trunk.</p>	<p>32. A. YES</p> <p>B. NO</p> <p>C. MAYBE</p>
<p>33. Suppose you know that</p> <p style="padding-left: 40px;">None of Bob's books are on the table, but there are books on the table.</p> <p>Then would this be true?</p> <p style="padding-left: 40px;">At least some of the books on the table are not Bob's</p>	<p>33. A. YES</p> <p>B. NO</p> <p>C. MAYBE</p>
<p>34. Suppose you know that</p> <p style="padding-left: 40px;">All X's are Y's. All Z's are Y's.</p> <p>Then would this be true?</p> <p style="padding-left: 40px;">At least some Z's are X's.</p>	<p>34. A. YES</p> <p>B. NO</p> <p>C. MAYBE</p>

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

35. Suppose you know that

All Mary's pencils are yellow.

Then would this be true?

At least some of Mary's pencils are not yellow.

35. A. YES

B. NO

C. MAYBE

36. Suppose you know that

All pencils are heavy.
 Nothing made of wood is heavy.

Then would this be true?

At least some pencils are made of wood.

36. A. YES

B. NO

C. MAYBE

37. Suppose you know that

At least some of the green pencils are Dick's.

Then would this be true?

All Dick's pencils are green.

37. A. YES

B. NO

C. MAYBE

38. Suppose you know that

No X's are Y's.

Then would this be true?

No Y's are X's.

38. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

39. Suppose you know that

All dogs are brown.

Then would this be true?

At least some dogs are not brown.

39. A. YES

B. NO

C. MAYBE

40. Suppose you know that

All the cookies Jane made for the fair had nuts in them.

All the cookies with nuts in them were sold.

Then would this be true?

All the cookies Jane made for the fair were sold.

40. A. YES

B. NO

C. MAYBE

41. Suppose you know that

All brown animals have four legs.

Then would this be true?

All animals with four legs are brown.

41. A. YES

B. NO

C. MAYBE

42. Suppose you know that

All members of the football team weigh over 150 pounds.

Henry does not weigh over 150 pounds.

Then would this be true?

Henry is on the football team.

42. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

43. Suppose you know that

All of John's candy is in the box.
 All of the candy that is not chocolate is also not in the box.

Then would this be true?

At least some of John's candy is not chocolate.

43. A. YES

B. NO

C. MAYBE

44. Suppose you know that

All the papers in the box are torn.
 None of John's papers are in the box.

Then would this be true?

None of John's papers are torn.

44. A. YES

B. NO

C. MAYBE

45. Suppose you know that

All of the boys are singing.

Then would this be true?

All of the people who are not singing are also not boys.

45. A. YES

B. NO

C. MAYBE

46. Suppose you know that

All the math homework is due today.
 None of John's homework is due today.
 All the homework for Mr. Miller's class is math homework.

Then would this be true?

None of John's homework is for Mr. Miller's class.

46. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

47. Suppose you know that

All the pencils in the box are green.
 All Sue's pencils are sharp.
 All the green pencils are Sue's.

Then would this be true?

At least some of the pencils in the box
 are not sharp.

47. A. YES
 B. NO
 C. MAYBE

48. Suppose you know that

None of my shirts are wool.
 None of the shirts hanging up in the
 closet are wool.

Then would this be true?

At least some of my shirts are hanging
 up in the closet.

48. A. YES
 B. NO
 C. MAYBE

49. Suppose you know that

All X's are Y's.

Then would this be true?

All things that are not Y's are also not
 X's.

49. A. YES
 B. NO
 C. MAYBE

50. Suppose you know that

All four-legged animals can fly.
 No horses can fly.
 All fast runners are four-legged animals.

Then would this be true?

No horses are fast runners.

50. A. YES
 B. NO
 C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

51. Suppose you know that

All of the boys in the class collect stamps.
 All students who are not members of the Stamp Club also do not collect stamps.

Then would this be true?

At least some of the boys in the class are not members of the Stamp Club.

51. A. YES
 B. NO
 C. MAYBE

52. Suppose you know that

All of the boys are running, but not everyone is running.

Then would this be true?

At least some of the people not running are not boys.

52. A. YES
 B. NO
 C. MAYBE

53. Suppose you know that

None of Tom's books are on the shelf.
 No science books are on the shelf.

Then would this be true?

At least some of Tom's books are science books.

53. A. YES
 B. NO
 C. MAYBE

54. Suppose you know that

All of Bill's five uncles are allowed to drive.
 All people who have a license have passed a driving test.
 All people who are allowed to drive have a license.

Then would this be true?

At least one of Bill's uncles has not passed a driving test.

54. A. YES
 B. NO
 C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

55. Suppose you know that

All of the band members are working.

Then would this be true?

Everyone who is not working is also not in the band.

55. A. YES

B. NO

C. MAYBE

56. Suppose you know that

All the books on the shelf belong to the library.

No science books belong to the library.

At least some of the books that Elmer likes are on the shelf.

Then would this be true?

At least some of the books that Elmer likes are not science books.

56. A. YES

B. NO

C. MAYBE

57. Suppose you know that

All the people who live on Main Street were born in Milltown.

None of the students in Room 352 live on Main Street.

Then would this be true?

None of the students in Room 352 were born in Milltown.

57. A. YES

B. NO

C. MAYBE

58. Suppose you know that

At least some of Mr. Johnes' students
ride the bus to school.
All students who live on Route 55 own
dogs.
All students who ride the bus to school
live on Route 55.

Then would this be true?

None of Mr. Johnes' students own dogs.

58. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

59. Suppose you know that

All Y's are X's.
 No Z's are Y's.

Then would this be true?

No Z's are X's.

59. A. YES

B. NO

C. MAYBE

60. Suppose you know that

All teachers are college graduates.
 All people who have gone to high school are men.
 All college graduates have gone to high school.

Then would this be true?

At least some teachers are not men.

60. A. YES

B. NO

C. MAYBE

61. Suppose you know that

All Z's are Y's.
 No X's are Y's.
 All T's are Z's.

Then would this be true?

No X's are T's.

61. A. YES

B. NO

C. MAYBE

62. Suppose you know that

All students who do not have a star are also not swimmers.
 Frances is a swimmer.

Then would this be true?

Frances does not have a star.

62. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

63. Suppose you know that

All the people in the auditorium are watching a movie.
 All students in the senior play are in the auditorium.
 Esther is a student in the senior play.

Then would this be true?

Esther is not watching a movie.

63. A. YES
 B. NO
 C. MAYBE

64. Suppose you know that

All birds have three eyes.
 No ducks are birds.

Then would this be true?

No ducks have three eyes.

64. A. YES
 B. NO
 C. MAYBE

65. Suppose you know that

No Z's are Y's.
 No X's are Y's.

Then would this be true?

At least some Z's are X's.

65. A. YES
 B. NO
 C. MAYBE

66. Suppose you know that

All of the red pencils are broken.
 Emil's pencil is not broken.

Then would this be true?

Emil's pencil is not red.

66. A. YES
 B. NO
 C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

67. Suppose you know that

All Z's are Y's.
 All Things that are not X's are also not Y's.

Then would this be true?

At least some Z's are not X's.

67. A. YES

B. NO

C. MAYBE

68. Suppose you know that

At least some of Mrs. Brown's flowers are not roses.
 At least some of the flowers in the flower show are not roses.

Then would this be true?

At least some of Mrs. Brown's flowers are in the flower show.

68. A. YES

B. NO

C. MAYBE

69. Suppose you know that

All the pencils in the box are yellow.
 None of the broken pencils are yellow.
 All Dick's pencils are in the box.

Then would this be true?

None of the broken pencils are Dick's.

69. A. YES

B. NO

C. MAYBE

70. Suppose you know that

All the people who live near the lake can swim.
 None of the students in Mr. Smith's class live near the lake.

Then would this be true?

At least some of the students in Mr. Smith's class cannot swim.

70. A. YES

B. NO

C. MAYBE

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

<p>71. Suppose you know that</p> <p style="padding-left: 40px;">None of the houses on Main Street are made of brick. Allan's house is not made of brick.</p> <p>Then would this be true?</p> <p style="padding-left: 40px;">Allan's house is on Main Street.</p>	<p>71. A. YES</p> <p>B. NO</p> <p>C. MAYBE</p>
<p>72. Suppose you know that</p> <p style="padding-left: 40px;">At least some of the boys in the class have bicycles. All those who are not here also do not have bicycles.</p> <p>Then would this be true?</p> <p style="padding-left: 40px;">No boys in the class are here.</p>	<p>72. A. YES</p> <p>B. NO</p> <p>C. MAYBE</p>
<p>73. Suppose you know that</p> <p style="padding-left: 40px;">All dogs are red.</p> <p>Then would this be true?</p> <p style="padding-left: 40px;">All animals that are not red are also not dogs.</p>	<p>73. A. YES</p> <p>B. NO</p> <p>C. MAYBE</p>
<p>74. Suppose you know that</p> <p style="padding-left: 40px;">All Mr. Smith's cars have polished bumpers. The red car does not have a polished bumper. All the cars in the garage are Mr. Smith's.</p> <p>Then would this be true?</p> <p style="padding-left: 40px;">The red car is not in the garage.</p>	<p>74. A. YES</p> <p>B. NO</p> <p>C. MAYBE</p>

Here is a reminder of the meaning of the possible answers:

- A. YES It must be true.
 B. NO It can't be true.
 C. MAYBE It may be true or it may not be true. You weren't told enough to be certain whether it is "YES" or "NO".

75. Suppose you know that

No ducks are birds.
 Nothing with large feathers is a bird.

Then would this be true?

At least some ducks have large feathers.

75. A. YES

B. NO

C. MAYBE

76. Suppose you know that

All alligators are smart animals.
 All animals that cannot sing are also not smart.

Then would this be true?

At least some alligators cannot sing.

76. A. YES

B. NO

C. MAYBE

77. Suppose you know that

All the students who live in the country
 have pets.
 Barbara does not live in the country.

Then would this be true?

Barbara does not have a pet.

77. A. YES

B. NO

C. MAYBE

78. Suppose you know that

All X's are Y's.
 All Z's are T's.
 All Y's are Z's.

Then would this be true?

At least some X's are not T's.

78. A. YES

B. NO

C. MAYBE

END OF TEST. GO BACK AND CHECK YOUR ANSWERS.

RE:ml
 M/H P18