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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Published by Illinois Critical Thinking Project, Department of Educational Policy Studies, University of Illinois at Urbana-Champaign.
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 is 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:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>A. YES</td>
<td>It must be true.</td>
<td></td>
</tr>
<tr>
<td>B. NO</td>
<td>It can't be true.</td>
<td></td>
</tr>
<tr>
<td>C. MAYBE</td>
<td>It may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
<td></td>
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<tbody>
<tr>
<td>11. Suppose you know that All the red books are John's. Then would this be true? All John's books are red.</td>
<td>11. A. YES</td>
<td>B. NO C. MAYBE</td>
</tr>
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<tbody>
<tr>
<td>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.</td>
<td>12. A. YES</td>
<td>B. NO C. MAYBE</td>
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<tbody>
<tr>
<td>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.</td>
<td>13. A. YES</td>
<td>B. NO C. MAYBE</td>
</tr>
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<tbody>
<tr>
<td>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.</td>
<td>14. A. YES</td>
<td>B. NO C. MAYBE</td>
</tr>
</tbody>
</table>
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".

31. Suppose you know that

   All cats can fly.
   All animals that can fly are black.

   Then would this be true?

   All cats are black.

   31. A. YES  

32. Suppose you know that

   All the things in the trunk are Bill's.
   The brown baseball bat is Bill's.

   Then would this be true?

   The brown baseball bat is in the trunk.

   32. A. YES  

33. Suppose you know that

   None of Bob's books are on the table, but there are books on the table.

   Then would this be true?

   At least some of the books on the table are not Bob's

   33. A. YES  

34. Suppose you know that

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

   Then would this be true?

   At least some Z's are X's.

   34. A. YES
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 I t 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.

### 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.

### 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.

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

<table>
<thead>
<tr>
<th>Choice</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. YES</td>
<td>It must be true.</td>
</tr>
<tr>
<td>B. NO</td>
<td>It can't be true.</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td>It may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>55. Suppose you know that</th>
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<tbody>
<tr>
<td>All of the band members are working.</td>
<td>55. A. YES</td>
</tr>
<tr>
<td>Then would this be true?</td>
<td>B. NO</td>
</tr>
<tr>
<td>Everyone who is not working is also not in the band.</td>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>56. Suppose you know that</th>
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<tbody>
<tr>
<td>All the books on the shelf belong to the library.</td>
<td>56. A. YES</td>
</tr>
<tr>
<td>No science books belong to the library.</td>
<td>B. NO</td>
</tr>
<tr>
<td>At least some of the books that Elmer likes are on the shelf.</td>
<td>C. MAYBE</td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>At least some of the books that Elmer likes are not science books.</td>
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<tr>
<th>57. Suppose you know that</th>
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<tbody>
<tr>
<td>All the people who live on Main Street were born in Milltown.</td>
<td>57. A. YES</td>
</tr>
<tr>
<td>None of the students in Room 352 live on Main Street.</td>
<td>B. NO</td>
</tr>
<tr>
<td>Then would this be true?</td>
<td>C. MAYBE</td>
</tr>
<tr>
<td>None of the students in Room 352 were born in Milltown.</td>
<td></td>
</tr>
</tbody>
</table>

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<tr>
<th>58. Suppose you know that</th>
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<tbody>
<tr>
<td>At least some of Mr. Johnes' students ride the bus to school.</td>
<td>58. A. YES</td>
</tr>
<tr>
<td>All students who live on Route 55 own dogs.</td>
<td>B. NO</td>
</tr>
<tr>
<td>All students who ride the bus to school live on Route 55.</td>
<td>C. MAYBE</td>
</tr>
<tr>
<td>Then would this be true?</td>
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</tbody>
</table>
None of Mr. Johnes' students own dogs.
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".

<table>
<thead>
<tr>
<th>Question</th>
<th>A. YES</th>
<th>B. NO</th>
<th>C. MAYBE</th>
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</thead>
<tbody>
<tr>
<td>59. Suppose you know that</td>
<td>All Y's are X's.</td>
<td>No Z's are Y's.</td>
<td>Then would this be true?</td>
</tr>
<tr>
<td>60. Suppose you know that</td>
<td>All teachers are college graduates.</td>
<td>All people who have gone to high school are men.</td>
<td>All college graduates have gone to high school.</td>
</tr>
<tr>
<td>61. Suppose you know that</td>
<td>All Z's are Y's.</td>
<td>No X's are Y's.</td>
<td>All T's are Z's.</td>
</tr>
<tr>
<td>62. Suppose you know that</td>
<td>All students who do not have a star are also not swimmers.</td>
<td>Frances is a swimmer.</td>
<td>Then would this be true?</td>
</tr>
</tbody>
</table>
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".

<table>
<thead>
<tr>
<th>63. Suppose you know that</th>
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<tbody>
<tr>
<td>All the people in the auditorium are watching a movie.</td>
<td></td>
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<tr>
<td>All students in the senior play are in the auditorium.</td>
<td></td>
</tr>
<tr>
<td>Esther is a student in the senior play.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>Esther is not watching a movie.</td>
<td>63. A. YES</td>
</tr>
<tr>
<td>B. NO</td>
<td></td>
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<tr>
<td>C. MAYBE</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>64. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>All birds have three eyes.</td>
<td></td>
</tr>
<tr>
<td>No ducks are birds.</td>
<td>64. A. YES</td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>No ducks have three eyes.</td>
<td>B. NO</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>65. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No Z's are Y's.</td>
<td></td>
</tr>
<tr>
<td>No X's are Y's.</td>
<td>65. A. YES</td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>At least some Z's are X's.</td>
<td>B. NO</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>66. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>All of the red pencils are broken.</td>
<td></td>
</tr>
<tr>
<td>Emil's pencil is not broken.</td>
<td>66. A. YES</td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>Emil's pencil is not red.</td>
<td>B. NO</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td></td>
</tr>
</tbody>
</table>
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".

71. Suppose you know that

None of the houses on Main Street are made of brick.
Allan's house is not made of brick.

Then would this be true?

Allan's house is on Main Street.

71. A. YES
B. NO
C. MAYBE

72. Suppose you know that

At least some of the boys in the class have bicycles.
All those who are not here also do not have bicycles.

Then would this be true?

No boys in the class are here.

72. A. YES
B. NO
C. MAYBE

73. Suppose you know that

All dogs are red.

Then would this be true?

All animals that are not red are also not dogs.

73. A. YES
B. NO
C. MAYBE

74. Suppose you know that

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.

Then would this be true?

The red car is not in the garage.

74. 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".

<table>
<thead>
<tr>
<th>75. Suppose you know that</th>
<th>A. YES</th>
<th>B. NO</th>
<th>C. MAYBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ducks are birds.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nothing with large feathers is a bird.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At least some ducks have large feathers.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>76. Suppose you know that</th>
<th>A. YES</th>
<th>B. NO</th>
<th>C. MAYBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>All alligators are smart animals.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All animals that cannot sing are also not smart.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At least some alligators cannot sing.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>77. Suppose you know that</th>
<th>A. YES</th>
<th>B. NO</th>
<th>C. MAYBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>All the students who live in the country have pets.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barbara does not live in the country.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barbara does not have a pet.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>78. Suppose you know that</th>
<th>A. YES</th>
<th>B. NO</th>
<th>C. MAYBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>All X's are Y's.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Z's are T's.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Y's are Z's.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At least some X's are not T's.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

END OF TEST. GO BACK AND CHECK YOUR ANSWERS.
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

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 "conditional 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.
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:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. YES</td>
<td>It must be true.</td>
</tr>
<tr>
<td>B. NO</td>
<td>It can't be true.</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td>It may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
</tr>
</tbody>
</table>

Circle the answer to this next sample. Be careful:

3. Suppose you know that

<table>
<thead>
<tr>
<th>Jane is standing near Betsy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Then would this be true?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Betsy is standing near Jane.</th>
</tr>
</thead>
</table>

| 3. | A. YES | B. NO | C. MAYBE |

The correct answer is C, "MAYBE". Even is 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

<table>
<thead>
<tr>
<th>California is near New York.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Then would this be true?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New York is near California.</th>
</tr>
</thead>
</table>

| 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 I t 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:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. YES</td>
<td>It must be true.</td>
</tr>
<tr>
<td>B. NO</td>
<td>It can't be true.</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td>It may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>If the hat on the table is blue, then it belongs to Joan. The hat on the table is blue. Then would this be true? The hat on the table belongs to Joan</td>
<td>7. A. YES B. NO C. MAYBE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>If the car in the parking lot is Mr. Smith's, then it is blue. The car in the parking lot is not blue. Then would this be true? The car in the parking lot is Mr. Smith's.</td>
<td>8. A. YES B. NO C. MAYBE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>If Tom lives in the white house, then his last name is Smith. Tom does not live in the white house. Then would this be true? Tom's last name is not Smith.</td>
<td>9. A. YES B. NO C. MAYBE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Harry is on the football team only if he has his mother's permission. Harry is on the football team. Then would this be true? Harry has his mother's permission.</td>
<td>10. A. YES B. NO C. MAYBE</td>
</tr>
</tbody>
</table>
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".

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer 1</th>
<th>Answer 2</th>
<th>Answer 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>11. Suppose you know that</td>
<td>A. YES</td>
<td>B. NO</td>
<td>C. MAYBE</td>
</tr>
<tr>
<td>If Mary lives in the white house, then her last name is Brown.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mary’s last name is Brown.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mary lives in the white house.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Suppose you know that</td>
<td>A. YES</td>
<td>B. NO</td>
<td>C. MAYBE</td>
</tr>
<tr>
<td>John is in the kitchen only if there is food in the kitchen.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>There is no food in the kitchen.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>John is in the kitchen.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Suppose you know that</td>
<td>A. YES</td>
<td>B. NO</td>
<td>C. MAYBE</td>
</tr>
<tr>
<td>If the automobile in the parking lot belongs to Mr. Brown, then it is</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>black.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The automobile in the parking lot doesn’t belong to Mr. Brown.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The automobile isn’t black.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. Suppose you know that</td>
<td>A. YES</td>
<td>B. NO</td>
<td>C. MAYBE</td>
</tr>
<tr>
<td>Joe's bicycle is not working today.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>If Joe's bicycle is not working, then he has to walk to school.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joe has to walk to school today?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 were't told enough to be certain whether it is "YES" or "NO".

15. Suppose you know that

There is an X only if there is a Y.
There is not a Y.

Then would this be true?

There is an X.

15. A. YES
B. NO
C. MAYBE

16. Suppose you know that

Dick was not at home yesterday afternoon.
If Dick was not at the football game yesterday afternoon he was at home.

Then would this be true?

Dick was not at the football game yesterday afternoon.

16. A. YES
B. NO
C. MAYBE

17. Suppose you know that

Tom may use paints only if he has cleaned up his clay work.
Tom may use paints.

Then would this be true?

Tom has cleaned up his clay work.

17. A. YES
B. NO
C. MAYBE

18. Suppose you know that

Fred went to a movie last night.
If Fred does not go to a movie, he feels bad the next day.

Then would this be true?

Fred does not feel bad today.

18. A. YES
B. NO
C. MAYBE
Here is a reminder of the meaning of the possible answers:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. YES</td>
<td>It must be true.</td>
<td></td>
</tr>
<tr>
<td>B. NO</td>
<td>It can't be true.</td>
<td></td>
</tr>
<tr>
<td>C. MAYBE</td>
<td>I t may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
<td></td>
</tr>
</tbody>
</table>

19. Suppose you know that

If there is an X, then there is a Y.
There is an X.

Then would this be true?
There is a Y.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>19. A. YES</td>
<td>B. NO</td>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>

20. Suppose you know that

Mary will be in the school play only if she likes plays.
Mary will be in the school play.

Then would this be true?
Mary does not like plays.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>20. A. YES</td>
<td>B. NO</td>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>

21. Suppose you know that

Tom is playing ball only if he has a ball glove.
Tom does not have a ball glove.

Then would this be true?
Tom is playing ball.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>21. A. YES</td>
<td>B. NO</td>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>

22. Suppose you know that

If there is an X, then there is a Y.
There is not a Y.

Then would this be true?
There is an X.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>22. A. YES</td>
<td>B. NO</td>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>
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".

<table>
<thead>
<tr>
<th>23. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>If whales are birds, then they can fly.</td>
<td>23. A. YES</td>
</tr>
<tr>
<td>Whales aren't birds.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td>B. NO</td>
</tr>
<tr>
<td>Whales can't fly.</td>
<td></td>
</tr>
<tr>
<td>24. Suppose you know that</td>
<td></td>
</tr>
<tr>
<td>If Bill lives on a farm, then he has a pet dog.</td>
<td>24. A. YES</td>
</tr>
<tr>
<td>Bill has a pet dog.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td>B. NO</td>
</tr>
<tr>
<td>Bill lives on a farm.</td>
<td></td>
</tr>
<tr>
<td>25. Suppose you know that</td>
<td></td>
</tr>
<tr>
<td>Jerry was not asked to play ball.</td>
<td>25. A. YES</td>
</tr>
<tr>
<td>Jerry is not home only if he was asked to play bail.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td>B. NO</td>
</tr>
<tr>
<td>Jerry is not home.</td>
<td></td>
</tr>
<tr>
<td>26. Suppose you know that</td>
<td></td>
</tr>
<tr>
<td>If Mary lives in the green house, then her last name is Jones.</td>
<td>26. A. YES</td>
</tr>
<tr>
<td>Mary doesn't live in the green house.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td>B. NO</td>
</tr>
<tr>
<td>Mary's last name is not Jones.</td>
<td></td>
</tr>
</tbody>
</table>
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

If the coat in the closet is brown, then it belongs to Sue.
The coat in the closet is brown.
Then would this be true?
The coat in the closet does not belong to Sue.

27. A. YES
B. NO
C. MAYBE

---

28. Suppose you know that

There are black cats only if there are pink cats.
There are black cats.
Then would this be true?
There are pink cats.

28. A. YES
B. NO
C. MAYBE

---

29. Suppose you know that

If the bicycle in the garage is Bob's, then it is red.
The bicycle in the garage is not red.
Then would this be true?
The bicycle in the garage is not Bob's.

29. A. YES
B. NO
C. MAYBE

---

30. Suppose you know that

If there is an X, then there is a Y.
There is a Y.
Then would this be true?
There is an X.

30. A. YES
B. NO
C. MAYBE
Here is a reminder of the meaning of the possible answers:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. YES</td>
<td>It must be true.</td>
</tr>
<tr>
<td>B. NO</td>
<td>It can't be true.</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td>It may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>31. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If mice have five legs, then they run faster than horses.</td>
</tr>
<tr>
<td>Mice do have five legs.</td>
</tr>
<tr>
<td>Then would this be true?</td>
</tr>
<tr>
<td>Mice run faster than horses.</td>
</tr>
<tr>
<td>31. A. YES</td>
</tr>
<tr>
<td>B. NO</td>
</tr>
<tr>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>32. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If Jane fell off her horse, then she hurt herself badly.</td>
</tr>
<tr>
<td>Jane hurt herself badly.</td>
</tr>
<tr>
<td>Then would this be true?</td>
</tr>
<tr>
<td>Jane fell off her horse.</td>
</tr>
<tr>
<td>32. A. YES</td>
</tr>
<tr>
<td>B. NO</td>
</tr>
<tr>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>33. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>The short pencil is not Bill's favorite pencil.</td>
</tr>
<tr>
<td>The short pencil is not Bill's favorite, only if it is dull.</td>
</tr>
<tr>
<td>Then would this be true?</td>
</tr>
<tr>
<td>The short pencil is dull.</td>
</tr>
<tr>
<td>33. A. YES</td>
</tr>
<tr>
<td>B. NO</td>
</tr>
<tr>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>34. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If there is an X, then there is a Y.</td>
</tr>
<tr>
<td>There is not an X.</td>
</tr>
<tr>
<td>Then would this be true?</td>
</tr>
<tr>
<td>There is not a Y.</td>
</tr>
<tr>
<td>34. A. YES</td>
</tr>
<tr>
<td>B. NO</td>
</tr>
<tr>
<td>C. MAYBE</td>
</tr>
</tbody>
</table>
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".

<table>
<thead>
<tr>
<th>35. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>If John lives in the white house, then his</td>
<td></td>
</tr>
<tr>
<td>last name is Smith.</td>
<td></td>
</tr>
<tr>
<td>John's last name is not Smith.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>John does live in the white house.</td>
<td></td>
</tr>
<tr>
<td>35. A. YES</td>
<td></td>
</tr>
<tr>
<td>B. NO</td>
<td></td>
</tr>
<tr>
<td>C. MAYBE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>36. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds can fly only if they can play the piano.</td>
<td></td>
</tr>
<tr>
<td>Birds cannot play the piano.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>Birds can fly.</td>
<td></td>
</tr>
<tr>
<td>36. A. YES</td>
<td></td>
</tr>
<tr>
<td>B. NO</td>
<td></td>
</tr>
<tr>
<td>C. MAYBE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>37. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The car will start.</td>
<td></td>
</tr>
<tr>
<td>If the temperature is not below freezing,</td>
<td></td>
</tr>
<tr>
<td>the car will start.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>The temperature is not below freezing.</td>
<td></td>
</tr>
<tr>
<td>37. A. YES</td>
<td></td>
</tr>
<tr>
<td>B. NO</td>
<td></td>
</tr>
<tr>
<td>C. MAYBE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>38. Suppose you know that</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>There is an X only if there is a Y.</td>
<td></td>
</tr>
<tr>
<td>There is an X.</td>
<td></td>
</tr>
<tr>
<td>Then would this be true?</td>
<td></td>
</tr>
<tr>
<td>There is a Y.</td>
<td></td>
</tr>
<tr>
<td>38. A. YES</td>
<td></td>
</tr>
<tr>
<td>B. NO</td>
<td></td>
</tr>
<tr>
<td>C. MAYBE</td>
<td></td>
</tr>
</tbody>
</table>
Here is a reminder of the meaning of the possible answers:

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>NO</th>
<th>MAYBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>It must be true.</td>
<td>It can't be true.</td>
<td>I t may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>39. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If dogs have four legs, then they have three eyes. Dogs don't have three eyes. Then would this be true? Dogs do have four legs.</td>
</tr>
<tr>
<td>39. A. YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>40. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If Jean goes to the park, she will see her friend Pat. Today, Jean is going to the park. Then would this be true? Today, Jean will see her friend Pat.</td>
</tr>
<tr>
<td>40. A. YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>41. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If horses are green, then they have two tails. Horses have two tails. Then would this be true? Horses are green.</td>
</tr>
<tr>
<td>41. A. YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>42. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>The red pencils belong to Sally only if they are on the table. The red pencils are not on the table. Then would this be true? The red pencils do not belong to Sally.</td>
</tr>
<tr>
<td>42. A. YES</td>
</tr>
</tbody>
</table>
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

If Paul rides his bike to school, he goes the long way.
Paul rode his bike to school today.
If Paul goes the long way, he gets to school late.

Then would this be true?
Paul was not late for school today.

44. Suppose you know that

If the chair is green, then the table is black.

Then would this be true?
If the table is black, then the chair is green.

45. Suppose you know that

If there is a blue pencil in the second box, then there is a green pencil in the first box.
If there is a green pencil in the first box, then there is a red pencil in the third box.

Then would this be true?
If there is a blue pencil in the second box, then there is a red pencil in the third box.

46. Suppose you know that

If Mrs. Smith entered the flower show, then she entered her roses.

Then would this be true?
If Mrs. Smith didn't enter her roses, then
she didn't enter the flower show.
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 I t 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

Bill will see Audrey, if and only if he goes to Montreal.
Bill will not see Audrey this year.

Then would this be true?

Bill is going to Montreal this year.

47. A. YES  B. NO  C. MAYBE

48. Suppose you know that

If Gary sees Sharon, he goes to Canada.
This winter Gary saw Sharon.
Gary goes skating only if he goes to Canada.

Then would this be true?

This winter Gary went skating.

48. A. YES  B. NO  C. MAYBE

49. Suppose you know that

If there is an A, then there is a B.
If there is a B, then there is a C.

Then would this be true?

If there is an A, then there is a C.

49. A. YES  B. NO  C. MAYBE

50. Suppose you know that

If birds can fly, then they have six legs.

Then would this be true?

If birds don't have six legs, then they can't fly.

50. A. YES  B. NO  C. MAYBE
Here is a reminder of the meaning of the possible answers:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. YES</td>
<td>It must be true.</td>
</tr>
<tr>
<td>B. NO</td>
<td>It can't be true.</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td>It may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>51. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If the bus goes to town, then it passes the old stone church.</td>
</tr>
<tr>
<td>The bus goes to town.</td>
</tr>
<tr>
<td>If it passes the old stone church, then it goes over the new bridge.</td>
</tr>
<tr>
<td>Then would this be true?</td>
</tr>
<tr>
<td>The bus doesn't go over the new bridge.</td>
</tr>
<tr>
<td>51. A. YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>52. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If the school team loses this game, Brighton High will win the league pennant.</td>
</tr>
<tr>
<td>If Joe does not hit a homer on this pitch, the school team will lose this game.</td>
</tr>
<tr>
<td>Then would this be true?</td>
</tr>
<tr>
<td>If Joe does not hit a homer on this pitch, Brighton High will win the league pennant.</td>
</tr>
<tr>
<td>52. A. YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>53. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>If Jean goes shopping, she goes to Chicago.</td>
</tr>
<tr>
<td>Last Saturday Jean went shopping.</td>
</tr>
<tr>
<td>Jean visits her aunt only if she goes to Chicago.</td>
</tr>
<tr>
<td>Then would this be true?</td>
</tr>
<tr>
<td>Last Saturday Jean visited her aunt.</td>
</tr>
<tr>
<td>53. A. YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>54. Suppose you know that</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tom will go skating, if and only if he can borrow Frank's jacket.</td>
</tr>
<tr>
<td>Tom is not going skating.</td>
</tr>
<tr>
<td>Then would this be true?</td>
</tr>
<tr>
<td>54. A. YES</td>
</tr>
</tbody>
</table>
Tom can borrow Frank's jacket.
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

If Sam misses the bus, he will walk to school.
If Sam walks to school, he will cross the bridge.

Then would this be true?

If Sam misses the bus, he will cross the bridge.

55. A. YES
B. NO
C. MAYBE

56. Suppose you know that

If Bob did not buy a new baseball glove, then he played basketball today.

Then would this be true?

If Bob did not play basketball today, then he did buy a new baseball glove.

56. A. YES
B. NO
C. MAYBE

57. Suppose you know that

If Bill has an apple in his lunchbox, then Sally has a cracker in her lunchbox.

Then would this be true?

If Sally has a cracker in her lunchbox, then Bill has an apple in his lunchbox.

57. A. YES
B. NO
C. MAYBE

58. Suppose you know that

Betty is going to the movies.
Betty is not going to the movies, if and only if Ann is going to the movies.

Then would this be true?

Ann is going to the movies.

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

| 59. A. YES | If there is an X, then there is a Y. |
| 59. B. NO  | Then would this be true? |
| 59. C. MAYBE | If there is a Y, then there is an X. |

60. Suppose you know that

| 60. A. YES | Elephants are pink, if and only if they are large. |
| 60. B. NO | Elephants are not pink. |
| 60. C. MAYBE | Then would this be true? |
|           | Elephants are large. |

61. Suppose you know that

| 61. A. YES | If there is an X, then there is a Y. |
| 61. B. NO | Then would this be true? |
| 61. C. MAYBE | If there is not a Y, then there is not an X. |

62. Suppose you know that

| 62. A. YES | If John has the red chalk, then he is making a poster for the play. |
| 62. B. NO | John has the red chalk. |
| 62. C. MAYBE | If John is making a poster for the play, then he is in the library. |
|           | Then would this be true? |
|           | John is in the library. |
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

That bicycle belongs to John, if and only if it is red.
That bicycle belongs to John.

Then would this be true?

That bicycle is not red.

   63. A. YES
   B. NO
   C. MAYBE

64. Suppose you know that

If a dog can stand on its front legs, then it is a puppy.

Then would this be true?

If a dog is a puppy, then it can stand on its front legs.

   64. A. YES
   B. NO
   C. MAYBE

65. Suppose you know that

If there is an X, then there is a Y.
There is an X.
There is a Z only if there is a Y.

Then would this be true?

There is a Z.

   65. A. YES
   B. NO
   C. MAYBE

66. Suppose you know that

If Kate is in Mrs. Jones' class, then she is out on the playground.
If Kate is out on the playground, then she is jumping rope.

Then would this be true?

If Kate is in Mrs. Jones' class, then she is jumping rope.

   66. A. YES
   B. NO
   C. MAYBE
Here is a reminder of the meaning of the possible answers:

<table>
<thead>
<tr>
<th>Option</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. YES</td>
<td>It must be true.</td>
</tr>
<tr>
<td>B. NO</td>
<td>It can't be true.</td>
</tr>
<tr>
<td>C. MAYBE</td>
<td>It may be true or it may not be true. You weren't told enough to be certain whether it is &quot;YES&quot; or &quot;NO&quot;.</td>
</tr>
</tbody>
</table>

67. Suppose you know that

| If there is an X, then there is a Y. |
| There is an X. |
| If there is a Y, then there is a Z. |
| Then would this be true? |
| There is not a Z. |

67. A. YES
B. NO
C. MAYBE

68. Suppose you know that

| If Jane did not go to the movies yesterday, then she saw her friend Pat. |
| Jane went to the park yesterday only if she saw her friend Pat. |
| Jane did not go to the movies yesterday. |
| Then would this be true? |
| Jane went to the park yesterday. |

68. A. YES
B. NO
C. MAYBE

69. Suppose you know that

| If Nancy bought a new dress, then she went to the shop on Main Street. |
| Then would this be true? |
| If Nancy didn’t go to the shop on Main Street, then she didn’t buy a new dress. |

69. A. YES
B. NO
C. MAYBE

70. Suppose you know that

| If John is not in school, then he has a cold. |
| Then would this be true? |
| If John has a cold, then he is not in school. |

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 I t may be true or it may not be true. You
            weren't told enough to be certain whether it
            is "YES" or "NO".

71. Suppose you know that

   If Sally is writing a report at home, then
   the library is closed.
   Sally is writing a report at home.
   Dick is using the classroom dictionary
   only if the library is closed.

   Then would this be true?

   Dick is using the classroom dictionary.

71. A. YES
    B. NO
    C. MAYBE

72. Suppose you know that

   If there are no blue pencils in the first
   box, then there is a green pencil in
   the second box.
   If there is a green pencil in the second
   box, then there is a red pencil in the
   third box.
   There are no blue pencils in the first box.

   Then would this be true?

   There are no red pencils in the third box.

72. A. YES
    B. NO
    C. MAYBE

73. Suppose you know that

   If an animal is a turtle, then it can fly.
   If an animal can fly, then it has feathers.

   Then would this be true?

   If an animal is a turtle, then it has
   feathers.

73. A. YES
    B. NO
    C. MAYBE

74. Suppose you know that

   If there is a yellow marble in the first
   box, then there is a blue marble in
   the second box.

   Then would this be true?

   If there is not a blue marble in the
   second box, then there is not a
yellow marble in the first box.
Here is a reminder of the meaning of the possible answers:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>YES</td>
</tr>
<tr>
<td>B</td>
<td>NO</td>
</tr>
<tr>
<td>C</td>
<td>MAYBE</td>
</tr>
</tbody>
</table>

75. Suppose you know that

If people have fins, then they live in water.
People have fins.
People can swim only if they live in water.

Then would this be true?
People can swim.

<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>75.</td>
<td>A. YES</td>
</tr>
</tbody>
</table>

76. Suppose you know that

If this animal is a dog, then it can fly.
This animal is a dog.
If an animal can fly, then it has feathers.

Then would this be true?
This animal does not have feathers.

<p>| | |</p>
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<tbody>
<tr>
<td>76.</td>
<td>A. YES</td>
</tr>
</tbody>
</table>

77. Suppose you know that

If John is on the volleyball team, then he is good at volleyball.

Then would this be true?
If John is good at volleyball, then he is on the volleyball team.

<p>| | |</p>
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<tbody>
<tr>
<td>77.</td>
<td>A. YES</td>
</tr>
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</table>

78. Suppose you know that

There is a Y, if and only if there is an X.
There is not a Y.

Then would this be true?
There is an X.

<p>| | |</p>
<table>
<thead>
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<th></th>
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</thead>
<tbody>
<tr>
<td>78.</td>
<td>A. YES</td>
</tr>
</tbody>
</table>

END OF TEST. GO BACK AND CHECK YOUR ANSWERS.

RE:ml
M/H P18