Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Conditional Statements

____ 1. What is the conclusion of the following conditional?
A number is divisible by 5 if the number ends with digits 0 or 5.
A. The number is divisible by 5.
B. If a number ends with the digit 0 or 5, then the number is divisible by 5.
C. The number ends with digits 0 or 5.
D. The number is odd.

____ 2. Identify the hypothesis and conclusion of this conditional statement:
If yesterday was Friday, then today is Saturday.
A. Hypothesis: Yesterday was Friday.
Conclusion: Today is not Saturday.
B. Hypothesis: Today is Saturday.
Conclusion: Yesterday was Friday.
C. Hypothesis: Today is not Saturday.
Conclusion: Yesterday was Friday.
D. Hypothesis: Yesterday was Friday.
Conclusion: Today is Saturday.

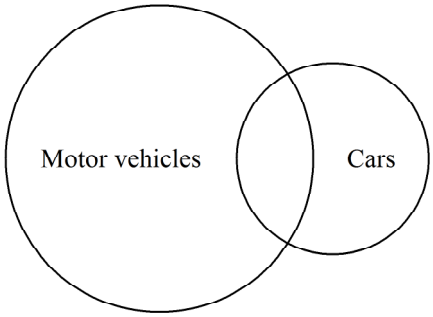
____ 3. Which choice shows a true conditional, with the hypothesis and conclusion identified correctly?
A. Tomorrow is Thursday if today is Wednesday.
Hypothesis: Today is Wednesday.
Conclusion: Tomorrow is Thursday.
B. If today is Wednesday, then tomorrow is Thursday.
Hypothesis: Tomorrow is Thursday.
Conclusion: Today is Wednesday.
C. Tomorrow is Friday if today is Wednesday.
Hypothesis: Today is Wednesday.
Conclusion: Tomorrow is Friday.
D. If today is Wednesday, then tomorrow is Thursday.
Hypothesis: Tomorrow is Thursday.
Conclusion: Today is not Wednesday.

____ 4. Another name for an *if-then* statement is a ____. Every conditional has two parts. The part following *if* is the ____ , and the part following *then* is the ____.
A. hypothesis; conditional; conclusion
B. conditional; hypothesis; conclusion
C. conditional; conclusion; hypothesis
D. hypothesis; conclusion; conditional

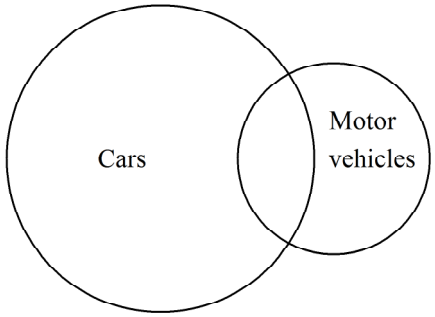
____ 5. Write this statement as a conditional in *if-then* form:
All triangles have three sides.
A. If a triangle has three sides, then all triangles have three sides.
B. If a figure is a triangle, then all triangles have three sides.
C. If a figure has three sides, then it is not a triangle.
D. If a figure is a triangle, then it has three sides.

____ 6. Draw a Venn diagram to illustrate this conditional:
Cars are motor vehicles.

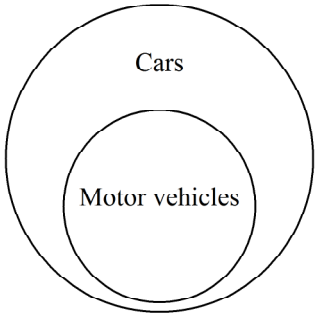
A.



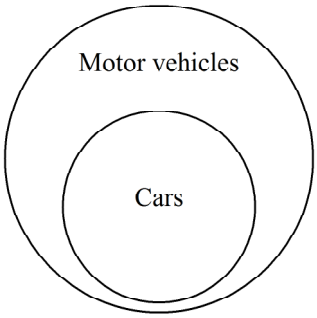
C.



B.



D.



____ 7. A conditional can have a ____ of *true* or *false*.

A. truth value
B. hypothesis
C. conclusion
D. counterexample

____ 8. Which statement is a counterexample for the following conditional?
If you live in Springfield, then you live in Illinois.

A. Jonah Lincoln lives in Springfield, Illinois.
B. Billy Jones lives in Chicago, Illinois.
C. Sara Lucas lives in Springfield.
D. Erin Naismith lives in Springfield, Massachusetts.

____ 9. What is the converse of the following conditional?
If a number is a natural number, then it is a whole number.

A. If a number is a natural number, then it is a whole number.
B. If a number is not a natural number, then it is not a whole number.
C. If a number is a whole number, then it is a natural number.
D. If a number is not a whole number, then it is not a natural number.

Conditional Statements
Answer Section

1. A
2. D
3. A
4. B
5. D
6. D
7. A
8. D
9. C