

Overview of problems



Example Set: A

Identify the hypothesis and conclusion of the conditional statement

If you go to bed late then you will feel tired

If you study then you will pass the test

If too many cars enter the highway then there will be a traffic jam



Example Set: B

Use the conditional statement to write the converse

If you are at least 16 years old then you can drive

If the sun is out then you can get a tan

If you're at school then you are in class



Example Set: C

Determine if the statement is an "if and only if" statement- if a statement is not true provide a counterexample

If the switch is in the on position then the light is on

If you are dead then you are not alive

If a number is odd and between 3 and 11 then the number is 7

Conditional Statements and Converses



Overview of problems- KEY



Example Set: A

Identify the hypothesis and conclusion of the conditional statement

If you go to bed late then you will feel tired
H C

If you study then you will pass the test
H C

If too many cars enter the highway then there will be a traffic jam
H C



Example Set: B

Use the conditional statement to write the converse

If you are at least 16 years old then you can drive

if you can drive then your atleast 16

If the sun is out then you can get a tan

if you got tan then the sun was out

If you're at school then you are in class

if you are in class then you are at school



Example Set: C

Determine if the statement is an "if and only if" statement- if a statement is not true provide a counterexample

(NOT if and only if)

If the switch is in the on position then the light is on

counter ex: the switch is on but the light bulb is broken.

If you are dead then you are not alive

yes, if and only if

(NOT if and only if)

If a number is odd and between 3 and 11 then the number is 7

counter ex: the number 5 is odd and in between 3 and 11