

Geometry

Chapter 2

Section 2-3

May 13-10:02 PM

Writing Conditionals

p: Two angles are supplementary

q: Two angles' measures add up to 180

$p \rightarrow q$

If two angles are supplementary, then their measures add up to 180.

$q \rightarrow p$

If two angles' measures add up to 180, then they are supplementary.

Sep 10-8:49 PM

Concept

Biconditional

A single statement that includes a conditional and its converse.

*Can be written as "p if and only if q"
or " $p \leftrightarrow q$ "

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Writing a Biconditional

p: Two angles are supplementary

q: Two angles' measures add up to 180

$p \rightarrow q$

If two angles are supplementary, then their measures add up to 180.

$q \rightarrow p$

If two angles' measures add up to 180, then they are supplementary.

$p \leftrightarrow q$

Two angles are supplementary if and only if their measures add up to 180.

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Dissecting a Biconditional

A point is a midpoint if and only if it divides a segment into two congruent segments.

If a point is a midpoint, then it divides a segment into two congruent segments.

If a point divides a segment into two congruent segments, then it is a midpoint.

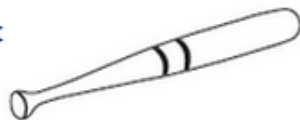
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Bad Definitions

Why it's bad

Bat

A bat is a long stick used in sports.



Javelin

Wristwatch

A wristwatch is an object that tells you what time it is.

Clock

Mittens

Mittens are the clothes you wear on your hands to keep them warm.



Gloves

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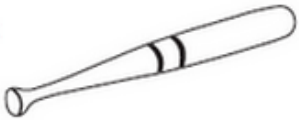

Good Definitions

- ✓ A good definition uses clearly understood terms. These terms should be commonly understood or already defined.
- ✓ A good definition is precise. Good definitions avoid words such as *large*, *sort of*, and *almost*.
- ✓ A good definition is reversible. That means you can write a good definition as a true biconditional.

Sep 6-9:30 AM

Bad Definitions

Write a better definition

<p>Bat A bat is a long stick used in sports.</p>	
<p>Wristwatch A wristwatch is an object that tells you what time it is.</p>	
<p>Mittens Mittens are the clothes you wear on your hands to keep them warm.</p>	

Wooden or metal stick used to hit baseballs or softballs in a game.

A clocklike object made to be worn on wrist.

, without individual finger compartments.

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Homework

Pages 101-102

#8-28 even

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