







2-3 Solve It!

SOLVE IT! **Getting Ready!**

Look at the examples of insects and noninsects below. How would you complete the following sentence: "If an animal is an insect, then . . ."? Explain your reasoning.

In this lesson you will learn if the conditional you wrote is a good definition.

Insects			Noninsects		
					
Ant	Fly	Beetle	Spider	Tick	Centipede

2-3 Lesson Quiz

1. What is the converse of the following true conditional?
If the converse is also true, combine the statements as a biconditional. If a number is even, then it is divisible by 2.
2. **Do you UNDERSTAND?** What are the two conditional statements that form this biconditional? Two angles are complementary if and only if the sum of their measures is 90° .
3. Is this definition of a rectangle reversible? If yes, write it as a true biconditional. A rectangle is a parallelogram with 4 right angles.

Answers

Solve It!

"... it has 6 legs." OR "... its body has 3 sections." OR "... it has 6 legs and its body has 3 sections."; all of the insects have 6 legs and bodies with 3 sections, but none of the noninsects have 6 legs or bodies with 3 sections.

Lesson Quiz

1. Converse: If a number is divisible by 2, then it is even.
Biconditional: A number is even if and only if it is divisible by 2.
2. If two angles are complementary, then the sum of their angle measures

is 90° . If the sum of two angle measures is 90° , then the angles are complementary.

3. yes; A parallelogram is a rectangle if and only if it has 4 right angles.