

2-2 Solve It!

SOLVE IT! Getting Ready!

The company that prints the bumper sticker at the left below accidentally rewrote the original statement and printed the sticker three different ways. Suppose the original bumper sticker is true. Are the other bumper stickers true or false? Explain.

Notice that the statements on the bumper stickers are all related.

If you can read this, THEN YOU ARE TOO CLOSE.

A If you are too close, THEN YOU CAN READ THIS.

B If you cannot read this, then you are not too close.

C If you are not too close, THEN YOU CANNOT READ THIS.

2-2 Lesson Quiz

1. What are the hypothesis and the conclusion of the following conditional, “If a figure is a triangle, then it has 3 sides”?
2. How can you write the following statement as a conditional?
All squares are rectangles.
3. Is the following conditional true or false? If it is false, find a counterexample. If two numbers are odd, then their sum is even.
4. **Do you UNDERSTAND?** What are the converse, inverse, and contrapositive of the following conditional statement? What are the truth values of each? “If today is Sunday, then tomorrow is Monday.”

Answers

Solve It!

The first two bumper stickers are false, but the third one is true. Explanations may vary.

Lesson Quiz

1. Hypothesis: A figure is a triangle.
Conclusion: It has 3 sides.
2. If a figure is a square, then it is a rectangle.
3. true

4. Converse: If tomorrow is Monday, then today is Sunday. Inverse: If today is not Sunday, then tomorrow is not Monday. Contrapositive: If tomorrow is not Monday, then today is not Sunday. All three are true.