



Geometry

Name: _____

Unit 2—geometric reasoning

Period: _____

Target 2b assessment (if/then statements)

I can write a statement in if-then form.

Write the following statements as conditionals:

1. All Dogs have 4 legs
2. Every Rectangles is a parallelogram
3. The angles of a linear pair are supplementary.
4. All lines with the same slope are parallel.

I can identify the hypothesis and conclusion of a conditional statement.

Determine if the following statements are valid, and are therefore definitions:

1. A person lives in Mississippi if and only if that person lives in the United States.
2. A quadrilateral is a rectangle if and only if it has two pairs of opposite sides that are the same length
3. A triangle is equilateral if and only if it has three congruent sides.



I can write the converse, inverse, and contrapositive of a conditional statement, and when they are false, give a counterexample

Assume each of the given statements are true:

A. Write the converse, inverse, and contrapositive of the following statements.

1. If $3x-7=29$, then $x=12$.

Is the statement true/false

Converse:

T	F
---	---

Inverse:

T	F
---	---

Contrapositive

T	F
---	---

2. If a quadrilateral has four congruent sides then it is a rhombus.

Is the statement true/false

Converse:

T	F
---	---

Inverse:

T	F
---	---

Contrapositive

T	F
---	---

3. If B is the midpoint of segment AC, then segment AB is the same length as segment BC.

Is the statement true/false

Converse:

T	F
---	---

Inverse:

T	F
---	---

Contrapositive

T	F
---	---

