

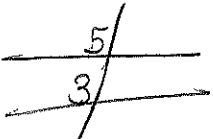

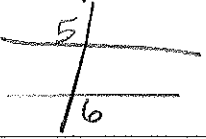


Geometry Unit 3 Vocabulary

| Word | Definition | Diagram/other information |
|-----------------------|---|--|
| Inductive reasoning | reasoning that uses specific examples or patterns to draw a conclusion | |
| conjecture | a prediction or hypothesis | |
| Deductive reasoning | reasoning based on a general rule or fact to draw a conclusion | |
| Conditional statement | if - then statement | if <u>it rains</u> , then <u>I will get wet</u> <div style="display: flex; justify-content: space-around; width: 100%;"> hypothesis conclusion </div> |
| hypothesis | the if clause | |
| conclusion | the then clause | |
| counterexample | an example that shows the statement is false. True hypothesis, false conclusion. | Ex. Even #'s all end in 2. 4 is a counterexample. It's even but doesn't end in 2. |
| converse | If $q \rightarrow$ then p . | If I will get wet, then it rains |
| inverse | If not $p \rightarrow$ then not q | If it will not rain, then I will not get wet. |
| contrapositive | If not $q \rightarrow$ then not p . | If I will not get wet, then it will not rain. |
| biconditional | Statement and converse must both be true \rightarrow if and only if. | |
| alternate | | |

| | | |
|---------------------------|--|---|
| Alternate interior angles | angles on opposite sides of the transversal and inside the lines |  |
| Same side interior angles | angles on the same side of the transversal and inside the lines |  |
| Corresponding angles | angles in the same position |  |
| Same side exterior angles | angles on the same side of the transversal and outside the lines |  |
| Alternate exterior angles | angles on opposite sides of the transversal and outside the lines. |  |