Secondary I Conditional Statements Worksheet Name
2. When $x=6$, $x^2=36$
3. Two angles are supplementary if they measure 180°.
4. You have a fever if your body temperature is 103°.
5. It is time for dinner if it is 6 p.m.
6. The car runs when there is gas in the tank.
7. There are 12 eggs if the carton is full.
8. A car with leaking antifreeze has a problem.
9. You can't teach an old dog new tricks.
10. A deer is albino if it has white fur and pink eyes.
Write the converse, inverse, and contrapositive of each conditional statement and decide if each statement is true of false.
11. If water is frozen, then its temperature is below $0^{\circ}C$.
Converse
Inverse
Contrapositive
12. If a point is a midpoint, then it divides a segment into two congruent segments.
Converse
Inverse
Contrapositive

13.	If you are a guitar player, then you are a musician.
	Converse
	Inverse
	Contrapositive
14.	If a dog is a Great Dane, then it is large.
	Converse
	Inverse
	Contrapositive
15.	If you compete in the Olympics, then you are an athlete.
	Converse
	Inverse
	Contrapositive
16.	If an obtuse angle is bisected, then two acute angles are obtained.
	Converse
	Inverse
	Contrapositive
17.	If two angles are complementary, then they add to 90°.
	Converse
	Inverse
	Contrapositive
18.	If you like hockey, then you go to the hockey game.
	Converse
	Inverse
	Contrapositive

19.	If two circles have the same diameter, then they have the same circumference.	
	Converse	
	Inverse	
	Contrapositive	
	/rite the converse of each statement. If the converse is true, write the biconditional tatement.	
20.	If an angle measures less than 90°, then it is an acute angle.	
	Converse	
	Biconditional	
21.	If two angles are supplementary, then the sum of their measures is 180°.	
	Converse	
	Biconditional	
22.	If an animal is a panther, then it lives in the forest.	
	Converse	
	Biconditional	
23.	If 3x+10=16, then x=2.	
	Converse	
	Biconditional	
24.	If a circle has a radius of r, then it has a circumference of $2\pi r$.	
	Converse	
	Biconditional	
25.	If two lines are perpendicular, then they intersect to form right angles.	
	Converse	
	Biconditional	

Use the Law of Syllogism to write the statement that follows from the pair of statements given.		
26.	If Moose is hungry when he goes to the pizza shop, then he'll finish a whole pizza. If Moose eats a whole pizza, then he goes through a pitcher of soda.	
27.	If you mail the payment by noon, then it will arrive by tomorrow. If your payment arrives by tomorrow, then you won't be charged a late fee.	
28.	If Estelle takes her broker's advice, she'll invest in stock X. If Estelle invests in stock X, she'll earn 50% on her investment by next year.	
29.	If a triangle has two angles of 60° , then the triangle is equiangular. If a triangle is equiangular, then it is also equilateral.	
30.	If you wear the school colors, then you have school spirit. If you have school spirit, then the team feels great.	
	If we don't make any stops, then we'll make it to the stadium by 12:30. If we make it to the ium by 12:30, then we should be in time to see the kickoff.	
then	In a recreational basketball league, if a player receives two technical fouls in one game, the player is ejected from the game. If a player is ejected from a game, then the player is out the following game.	
Writ	e a counter example for each statement.	
33. <i>A</i>	All athletes go to the Olympics. 34. All lines intersect at 90°.	
35. ·	The car runs if there is gas in the tank. 36. The value of x^3 is always greater than x .	
37. <i>i</i>	All quadrilaterals have four right angles. 38. All triangles have a right angle.	
39	All students who have an A in math have A's in all of their other classes	