Conditional Sentences and Logical Reasoning 3 Geometry Identify the hypothesis and conclusion in each conditional sentence, then write the converse. 1) If you are left-handed, then you do everything with 6) The baby will cry, if he is hungry. your left hand. 2) If you don't get enough sleep, then you will get 7) If you take medicine, then you will get better. sick. 3) If you are a girl, then you have long hair. 8) If you do not warm-up correctly, you will get muscle cramps. 4) If you are from California, then you love the beach. 9) If 3x - 13 = 23, then x = 125) You wear a costume, if it is Halloween. 10) k = -5, if 5k + 1 = 24Write the following sentences in conditional form. 11) Flowers smell sweet. 13) People from Ireland have red hair and green eyes. 12) People on vacation stay in hotels. 14) Rich people live in Beverly Hills. Determine whether each statement and it's converse are true or false. 15) If you live in Utah, then you love the snow. 16) If you have red hair, then you have a temper.

- 17) If a man is tall, then he is good at basketball.
- 18) If a person is Scottish, then he/she plays the bagpipes.

Give a counterexample for each conclusion.

- 19) All old people have gray hair.
- 20) All boys play football.
- 21) Soda has caffeine.
- 22) All babies are born in the hospital.
- Use the following assumptions to reach a conclusion.
- 27) i) Tina loves chocolate.ii). M & M's have chocolate.
- 28) i) Cops like donuts.ii) Mike is a cop
- 29) i) Sharon like Disney movies.
 - ii) Mulan is a Disney movie.
- 33) i) When it rains, it is cold.
 - ii) When it is cold, my mom makes hot chocolate.
 - iii) I love to drink hot chocolate.
 - iv) It is raining.
- 34) i) Jamie is older than David.ii) David is 8 years older than Jared.iii) Jared is 30 years old.
- 35) i) Kate bought a blouse, skirt, jacket, and shoes.
 ii) The skirt and the jacket cost the same amount.
 iii) The skirt cost twice as much as the blouse.
 iv) The shoes cost \$17 less than the blouse.
 - v) The shoes cost \$25.

- 23) Everybody loves the Lord of the Rings trilogy.
- 24) All polygons have 5 sides.
- 25) All reptiles have four legs.
- 26) All girls wear earrings.
 - 30) i) Girls wear high heels.ii) Sarah is a girl.
 - 31) i) Kara goes to church on Sunday.ii) Kara is at church,
 - 32) i) Kevin takes asprin when he has a headache.ii) Kevin is taking asprin.