

7. No conclusion is possible.
8. Figure ABC is a triangle; Law of Detachment.
9. If it is Saturday, then you wear sneakers; Law of Syllogism.
10. The Law of Detachment cannot be applied because the hypothesis is not satisfied.
13. Must be true; by E and A, it is breakfast time; by D, Julio is drinking juice.
14. Must be true; by E and A, it is breakfast time; by C, Curtis is drinking water.
15. May be true; by E and A, it is breakfast time. You don't know what Kira drinks at breakfast.
16. Is not true; by E and A, it is breakfast time; by C, Curtis drinks water and nothing else.
17. May be true; by E, Maria is drinking juice. You don't know if she also drinks water.
18. Is not true; by A and E, it is breakfast time; by D, Julio is drinking juice and nothing else.
20. If a place is a national park, then it is an interesting place; Mammoth Cave is an interesting place.
21. If a figure is a square, then it is a rectangle; $ABCD$ is a rectangle.
22. If you are in Key West, Florida, then the temperature is always above 32°F ; no conclusion is possible because the hypothesis is not satisfied.
23. If a person is a high school student, then the person likes art; no conclusion is possible because the hypothesis is not satisfied.
24. Check students' work.
25. a. Check students' work; the result is two more than the chosen integer.
b. $\frac{3x+6}{3} = x + 2$