

your eye and rotating it as you look at the sky on a clear day. You will notice a change in light intensity with the orientation of the Polaroid.

(Frank J. Blatt, *Principles of Physics*, 2nd ed.)

27. Since the secondary light [from the moon] does not inherently belong to the moon and is not received from any star or from the sun, and since in the whole universe there is no other body left but the earth, what must we conclude? What is to be proposed? Surely we must assert that the lunar body (or any other dark and sunless orb) is illuminated by the earth.

(Galileo Galilei, *The Starry Messenger*)

- ★28. Anyone familiar with our prison system knows that there are some inmates who behave little better than brute beasts. But the very fact that these prisoners exist is a telling argument against the efficacy of capital punishment as a deterrent. If the death penalty had been truly effective as a deterrent, such prisoners would long ago have vanished.

(“The Injustice of the Death Penalty,” *America*)

29. Though it is possible that REM sleep and dreaming are not necessary in the adult, REM deprivation studies seem to suggest otherwise. Why would REM pressure increase with deprivation if the system is unimportant in the adult?

(Herbert L. Petri, *Motivation: Theory and Research*, 2nd ed.)

30. We say that an end pursued in its own right is more complete than an end pursued because of something else, and that an end that is never choice-worthy because of something else is more complete than ends that are choiceworthy both in their own right and because of this end. Hence, an end that is always choiceworthy in its own right, and never because of something else, is complete without qualification.

(Aristotle, *Nicomachean Ethics*)

- II. The following arguments were taken from magazine and newspaper editorials and letters to the editor. In most instances the main conclusion must be rephrased to capture the full intent of the author. Write out what you interpret the main conclusion to be.

- ★1. University administrators know well the benefits that follow notable success in college sports: increased applications for admissions, increased income from licensed logo merchandise, more lucrative television deals, post-season game revenue and more successful alumni fund drives. The idea that there is something ideal and pure about the amateur athlete is self-serving bunk.

(Michael McDonnell, *letter to the editor*)

2. In a nation of immigrants, people of diverse ethnic backgrounds must have a common bond through which to exchange ideas. How can this bond be accomplished if there is no common language? It is those who shelter the immigrant from learning English by encouraging the development of a multilingual society who are creating a xenophobic atmosphere. They allow the immigrant to surround himself with a cocoon of language from which he cannot escape and which others cannot penetrate.

(Rita Toften, *letter to the editor*)

3. The health and fitness of our children has become a problem partly because of our attitude toward athletics. The purpose of sports, especially for children, should be to make healthy people healthier. The concept of team sports has failed to do this. Rather than learning to interact and cooperate with others, youngsters are taught to compete. Team sports have only reinforced the notion that the team on top is the winner, and all others are losers. This approach does not make sports appealing to many children, and some, especially among the less fit, burn out by the time they are twelve.

(Mark I. Pitman, "Young Jocks")

- ★4. College is the time in which a young mind is supposed to mature and acquire wisdom, and one can only do this by experiencing as much diverse intellectual stimuli as possible. A business student may be a whiz at accounting, but has he or she ever experienced the beauty of a Shakespearean sonnet or the boundless events composing Hebrew history? Most likely not. While many of these neoconservatives will probably go on to be financially successful, they are robbing themselves of the true purpose of collegiate academics, a sacrifice that outweighs the future salary checks.

(Robert S. Griffith, "Conservative College Press")

5. History has shown repeatedly that you cannot legislate morality, nor does anyone have a right to. The real problem is the people who have a vested interest in sustaining the multibillion-dollar drug industry created by the laws against drugs. The legalization of drugs would remove the thrill of breaking the law; it would end the suffering caused by unmetered doses, impurities, and substandard paraphernalia. A huge segment of the underground and extralegal economy would move into a legitimate economy, taking money away from criminals, eliminating crime and violence, and restoring many talented people to useful endeavor.

(Thomas L. Wayburn, letter to the editor)

6. Infectious disease is no longer the leading cause of death in this country, thanks to antibiotics, but there are new strains of bacteria that are resistant to—and others that grow only in the presence of—antibiotics. Yet Congress wants to cut the National Institutes of Health budget. Further cuts would leave us woefully unprepared to cope with the new microbes Mother Nature has cooking in her kitchen.

(Valina L. Dawson, letter to the editor)

- ★7. A person cannot reject free will and still insist on criminality and codes of moral behavior. If people are compelled by forces beyond their control (genes or environment), then their actions, no matter how vile, are excusable. That means the Nuremberg trials of Nazi murderers were invalid, and all prison gates should be flung open. The essence of our humanity is the ability to choose between right and wrong, good and evil, and act accordingly. Strip that from us and we are mere animals.

(Rabbi Gilbert S. Rosenthal, letter to the editor)

8. Ideally, decisions about health-care should be based on the doctor's clinical judgment, patient preference, and scientific evidence. Patients should always be presented with options in their care. Elective cesarean section, however, is not used to treat a problem but to avoid a natural process. An elective surgery like this puts the patient at unnecessary risk, increases the risk for complications in future deliveries, and increases health-care costs.

(Anne Foster-Rosales, M.D., letter to the editor)

9. Parents who feel guilty for the little time they can (or choose to) spend with their children “pick up” after them—so the children don't learn to face the consequences of their own choices and actions. Parents who allow their children to fail are showing them greater love and respect.

(Susan J. Peters, letter to the editor)

- ★10. Most of the environmental problems facing us stem, at least in part, from the sheer number of Americans. The average American produces three quarters of a ton of garbage every year, consumes hundreds of gallons of gasoline, and uses large amounts of electricity (often from a nuclear power plant, coal burning, or a dam). The least painful way to protect the environment is to limit population growth.

(Craig M. Bradley, letter to the editor)

III. Define the following terms:

logic	premise	inference
argument	conclusion	proposition
statement	conclusion indicator	sylogistic logic
truth value	premise indicator	modal logic

IV. Answer “true” or “false” to the following statements:

- The purpose of the premise or premises is to set forth the reasons or evidence given in support of the conclusion.
- Some arguments have more than one conclusion.
- All arguments must have more than one premise.
- The words “therefore,” “hence,” “so,” “since,” and “thus” are all conclusion indicators.
- The words “for,” “because,” “as,” and “for the reason that” are all premise indicators.
- In the strict sense of the terms, *inference* and *argument* have exactly the same meaning.
- In most (but not all) arguments that lack indicator words, the conclusion is the first statement.
- Any sentence that is either true or false is a statement.
- Every statement has a truth value.
- Aristotle is the person usually credited with being the father of logic.



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