

Introduction to Mathematical Thinking

Assignment 1 Solutions

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1 Questions

1. The man saw the woman through his telescope. The man saw the woman carrying a telescope.
2. (a) Sisters reunited in checkout line at Safeway after ten years
(b) City authorities are investigating a large hole that appeared on High Street
(c) Mayor says bus passengers should wear seatbelts
3. Any head injury is serious enough that you can't ignore it.
4. I think the original meaning implies that you can't use the elevator in case of a fire but I couldn't pick out the unintended meaning for this sentence. In terms of reformulating, the sentence should be "Do not use elevator in case of fire".
5. The intention is to say that the page is left blank for some reason. However, placing that notice makes it a false statement. I think the purpose is to inform the user/reader that the page is left blank and not just some mistake where content is missing. A reformulation of the sentence such as "This page intentionally left blank except for this statement" could potentially fix any logical problems about truth.
6. (a) Republicans Grill IRS Chief Over Lost Emails.
(b) He fed her cat food.
(c) Look at the dog with one eye.
7. Hot is an attribute of heat whereas temperature quantifies this heat attribute. Since temperature is a quantifiable value, it doesn't make sense to say that the temperature is hot since temperature can't be hot itself. It could be high or low, but not hot.
8. If we use the example with (2, 3, 5, 7, 11, 13) as the set of prime numbers, multiply them by each other and add 1, we get 30,031 which is divisible by 59. Therefore, it's not prime.

2 Just For Fun

1. Use the words and, and, and, and and in a sentence.
2. Use the words and, or, and or and in a sentence.