

Intro to Math Thinking Fall 2024: Assignment 1

1.
 - The man with the telescope saw a woman.
 - The woman with the telescope saw a man.
2. (a) Sisters reunited in checkout line at Safeway after 10 years.
(b) Large hole appears in High Street. City authorities are investigating it.
(c) Mayor says bus passengers should wear seat belts.
3. Context: Another meaning is someone without a head injury cannot be ignored

Improved: Every head injury cannot be ignored.

4. (a) Fire could meaning shooting do not use the elevator
(b) Only when there is fire do not use the elevator
Improved: Do not use the elevator in case of building fire.

5. Not a true statement.
Purpose: inform reader of blank page
Improved: No content on page.

6. (a) Baby on board
(b) Slow children at play
(c) Pet area

7. hot is subjective and ambiguous

8. Suppose p_1, p_2, \dots, p_n is the list of all primes.
Let $N = (p_1 * p_2 * \dots * p_n) + 1$
It is observed, $N > p_n$, then:

- If N is prime, there is another prime that continues the list
- If N is not prime, it must be divisible by at least 2 primes in the list p_1, p_2, \dots, p_n

1 FUN

1. Context: Punctuation
, and ! and ? and . and ; and :
2. Context: Quotation
,, and " or, and ' or `` and `