



10n1 Triple-Negative, Oddly Even, Prime Brain Twisters

2. If a and b are primes greater than 2 then none of the following **cannot** be true except which?
- A. $a + b$ is even
 - B. ab is odd
 - C. $a^2 + b^2$ is even
 - D. $b - a$ is odd
23. Which of the following must not be an integer if x is an integer and $4/x + 5/x + 6/x$ is a whole number?
- A. $x/3$
 - B. $30/x$
 - C. $45/x + x/3$
 - D. $7/x$
 - E. $x/7$
37. An odd times an odd minus an even all divided by an even cannot be
- A. *a fraction*
 - B. *even*
 - C. *odd*
 - D. *rational*
 - E. *none of the above*
43. Assuming that the statement, “If the sun is blue then the moon is green” is true then all of the following couldn’t be true except?
- A. *The sun and moon are blue.*
 - B. *The moon is red and the sun is blue.*
 - C. *The moon is blue and the sun is green.*
 - D. *If the moon is green then the sun is blue.*