

Name: _____

Class: _____ No.: _____

Mathematical Reasoning

1. Which of the following is not a statement?
 - a. $7 \times 8 = 56$
 - b. $7 - 4 = 2$
 - c. 12 is a multiple of 5
 - d. $3 \times 4 - 1$
2. Which of the following statements is false?
 - a. 6 is a factor of 12 and 30.
 - b. $3 \times 4 = 12$ and $3 \div 6 = 2$
 - c. 20 is divisible by 2 or 4
 - d. $18 = 9 + 9$ or $18 = 2 \times 9$
3. Which of the following is true?
 - a. All factors of 4 are factors of 6.
 - b. All pentagons have five sides.
 - c. Some odd numbers are divisible by 2.
 - d. Some proper fractions are greater than 1.
4. Which of the following statements is false?
 - a. All negative numbers are less than -1.
 - b. All multiples of 10 are divisible by 5.
 - c. Some prime numbers are odd numbers.
 - d. Some triangles have two equal sides.
5. Which of the following sentences is a statement?
 - a. $5y + 2$
 - b. Subtract 1 from 9.
 - c. 9 is an even number.
 - d. $x + 1 > 2$

6 – 15. In the table below, mark '✓' for a statement and mark 'X' for a non-statement.

$2x - 3$	
Find $\angle PQR$	
$7 > -3$	
What is the value of x?	
$8 + (-2) = 9$	
Stand up!	
22 is an even number.	
15 is a prime number.	
$x + 9 < 15$	
What is the value of x?	

TRUE or FALSE

11. $5 + 5 = 25$ or $5 \times 5 = 25$ _____
12. $12 \div 6 = 2$ and $7^2 = 14$ _____
13. 1 and 5 are the factors of 5. _____
14. -2 is a negative number or 4 is an odd number. _____
15. 4 is a factor of 16 and $(-4)^2 = 16$. _____