Name: _____ Class: _____ No.: _____

Mathematical Reasoning

1. Which of the following is not a statement?
   a. 7 x 8 = 56
   b. 7 - 4 = 2
   c. 12 is a multiple of 5
   d. 3 x 4 -1
2. Which of the following statements is false?
   a. 6 is a factor of 12 and 30.
   b. 3 x 4 = 12 and 3 ÷ 6 = 2
   c. 20 is divisible by 2 or 4
   d. 18 = 9 + 9 or 18 = 2 x 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 ∠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 x 5 = 25 _____
12. 12 ÷ 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. _____

LIVEWORKSHEETS