

Name: _____

Class: _____ No.: _____

Mathematical Reasoning

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

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

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