Name_____Class_____Date_____ HOMEWORK 1-5/1-6

SUM/PRODUCT OF REAL #'S HOMEWORK (1-5/1-6)

Question 1a: Multiple Choice	Question 1b: Show work/explain correct answer
For which value of P and W is $P+W$ a rational number? 1) $P=\frac{1}{\sqrt{3}}$ and $W=\frac{1}{\sqrt{6}}$ 2) $P=\frac{1}{\sqrt{4}}$ and $W=\frac{1}{\sqrt{9}}$ 3) $P=\frac{1}{\sqrt{6}}$ and $W=\frac{1}{\sqrt{10}}$ 4) $P=\frac{1}{\sqrt{25}}$ and $W=\frac{1}{\sqrt{2}}$	
Question 2a: Multiple Choice	**Question 2b: Show work/explain correct answer**
Given: $L=\sqrt{2}$ $M=3\sqrt{3}$ $N=\sqrt{16}$ $P=\sqrt{9}$ Which expression results in a rational number? 1) $L+M$ 2) $M+N$ 3) $N+P$ 4) $P+L$	
Question 2a: Multiple Choice	**Question 2b: Create your own example for correct response/explain.**
Which statement is *not* always true? 1) The sum of two rational numbers is rational. 2) The product of two irrational numbers is rational. 3) The sum of a rational number and an irrational number is irrational. 4) The product of a nonzero rational number and an irrational number is irrational.	