

Rational and Irrational Numbers

Use properties of rational and irrational numbers.

- **N.RN.3** Explain why the sum or product of two rational numbers is rational, that the sum of a rational number and an irrational number is irrational, and that the product of a nonzero rational number and an irrational number is irrational.

Problem #/Grading Notes	Points Possible	Points Assigned
#1-8 Rational vs. Irrational. Right or Wrong (1 point each).	8	
#9-16 Students should provide a correct evaluation (1 point) and correct symbolism (1 point).	16	
#17-20 Students will be drawing conclusions on each given scenario. They will fill in the blank correctly (1 point) and then explain/support their decision with a specific example (hopefully from the items in #9-16) (1 point).	8	
#21-22 Students must correctly identify for x using theorems from #17-20 (2 points).	4	
#23 Provide conclusions about each of the proposed items along with evidence to support the conclusion (2 points for the addition and 2 points for the multiplication).	4	
	Total: 40	