## "Are we Rational or Irrational?"

Directions:
Rational numbers can be expressed as fractions. We remember this easily because rational is fractional! Examples of rational numbers are 27, -3, 0,
and 2/3.

Irrational numbers have non-terminating decimals, meaning their decimal values go on forever. Examples of irrational numbers include  $\pi$ , e,  $-\sqrt{3}$ .

What happens when we combine rational numbers and irrational numbers via addition and multiplication? Is the product or sum a rational or irrational number?

1. Is the sum of 2 rational numbers rational or irrati	onal?		
Pick two rational numbers and find the sum:	_+	=_	
Was your answer rational or irrational? Will the sum of always be rational? Why? Use at least 3 Complete Sent		nal numbers	
2. Is the product of 2 rational numbers rational or irrati	onal?		
Pick two rational numbers and find the product:	x	=	
Was your answer rational or irrational? Will the productionals be rational? Use at least 3 complete sentences. necessary)			ers



<ol><li>Is the product of</li></ol>	a rational and irr	ational n	umber rationa	l or irrational?	
Pick one rational n	umber and one ir	rational r	number and fin	nd the product:	
(Rational)x	(Irrational)	_=_			
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4. Is the sum of a ra	ational and irratio	nal num	ber rational or	irrational?	
Pick one rational n	umber and one ir	rational r	number and fin	nd the sum:	
(Rational)	+ (Irrational) _		_=	_	
Was your answer rairrational number a your work if necess	always be irration			rational and one lete sentences. (Sho	w

