

# IM2 – 1.3 (P – V1) Rational & Irrational Numbers (Real Number System)

N.RN.3



Name: \_\_\_\_\_ Per: \_\_\_\_\_ Date: \_\_\_\_\_

**Directions** - (N.RN.3) Classify each number below. Use a calculator to verify your work.

Recall

- A **sum** is the total amount resulting from the addition of two or more numbers.
- A **product** is the total amount resulting from the multiplication of two or more numbers.

1. Complete the table, below.

Number	Terminating	Repeating	Neither	Rational	Irrational
-5					
$3\sqrt{2}$					
$\frac{2}{3}$					
$\frac{1}{3}$					
$\sqrt{8}$					
$-3\pi$					
$\frac{3}{\sqrt{25}}$					

**Directions** - (N.RN.3) Complete the table below, using the numbers given in problem # 1. Use a calculator to verify your work. Reflect on your results in problems 3 & 4, below. Are the results always, sometimes, or never rational / irrational?

2. With your team, choose combinations...
  - a. of numbers (from the table on Pg 1) to classify the **result** of each solution.
  - b. of your own numbers, then classify the **result** of each solution.

	Sums			Products		
	Rational + Rational	Irrational + Irrational	Rational + Irrational	Rational • Rational	Irrational • Irrational	Rational • Irrational
Choose #'s from Table						
Choose #'s from Table						
Choose #'s from Table						
Choose Your Own #'s						
Choose Your Own #'s						

3. What do you notice about the sums of...

- a) Rational + Rational: \_\_\_\_\_
- b) Irrational + Irrational: \_\_\_\_\_
- c) Rational + Irrational: \_\_\_\_\_

4. What do you notice about the products of...

- a) Rational • Rational: \_\_\_\_\_
- b) Irrational • Irrational: \_\_\_\_\_
- c) Rational • Irrational: \_\_\_\_\_