

Name: _____

Date: _____

Aim: I can describe the sum and product of rational and irrational numbers.

Do Now: Use your calculator to determine if the following are rational or irrational.

1. $\sqrt{2} \cdot \sqrt{5}$

2. $(\sqrt{2} + 3)(\sqrt{2} - 3)$

Directions: Use these values to complete level 1 and Level 2 below:

$$A = 0$$

$$B = \sqrt{5}$$

$$C = 10$$

$$D = \sqrt{16}$$

$$E = 16$$

$$F = \sqrt{20}$$

Level 1: Identify whether each of the following are rational or irrational.

A: _____

B: _____

C: _____

D: _____

E: _____

F: _____

Level 2: Identify whether each of the following are rational or irrational.

$D + E$: _____

$B \cdot C$: _____

$A + B$: _____

$B \cdot F$: _____

$C + E$: _____

$C \cdot D$: _____

$B + F$: _____

$A \cdot C$: _____