

GSE Algebra I

Name _____

HW - Rational and Irrational Operations

For the numbers below, decide whether they are rational or irrational. Remember to simplify first.

a. 8.731

R

b. $\sqrt{8}$

I

c. $\frac{10}{3}$

R

d. $-\sqrt{8}$

I

e. $1.\bar{6}$

R

f. $\sqrt{81}$

R

g. $3.2 + \frac{10}{3}$

R

h. $\sqrt{5} + 3$

I

i. ~~$\sqrt{5i} \cdot \sqrt{5} + \frac{3}{4}$~~

j. $-8 \cdot 2.75$

R

k. $\sqrt{12} \cdot \sqrt{25}$

$\sqrt{300}$

I

l. $-5 \cdot \sqrt{12}$

I

$\sqrt{75}$

~~$\sqrt{25 \cdot 3}$~~

$5\sqrt{3}$