**Algebra Lab (Rational and Irrational Numbers)**

What is a Rational Number?

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Examples:

What is an Irrational Number?

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Examples:

A set of numbers is **closed** under an operation if for any numbers in the set, the result of the operation is also in the set. A set may be closed under one operation and not closed under another.

**Addition**

Is the set of Rational Numbers closed under addition? Why?

Examples:

Is the set of Irrational Numbers closed under addition? Why?

Examples:

**Multiplication**

Is the set of Rational Numbers closed under multiplication? Why?

Examples:

Is the set of Irrational Numbers closed under multiplication? Why?

Examples:

* Analyze Activity 1 and Activity 2 in the handout provided.
* Answer the questions on the bottom of the page. Be prepared to justify your answers.

**Small Groups (1st Section)**

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 **Small Groups (2nd Section)**

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