

U1:L1 Identifying Numbers

RATIONAL NUMBER	is a real number that can be written as a simple fraction (i.e. as a ratio).
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1.5 is a rational number because ...

$$1.5 = \frac{3}{2}$$

(it can be written as a fraction)

Is every number a rational number? YES/NO

TIPS TO KNOWING IF NUMBERS ARE RATIONAL:

It is a whole number	5
It is a fraction with a whole number numerator and denominator.	$\frac{17}{4}$
It has a terminating decimal	0.46
It is a repeating decimal	0.333 ...

ARE the FOLLOWING RATIONAL numbers? Why OR Why not?

- a) 0.6735
- b) $0.666666666\bar{6}$
- c) 4.567828...

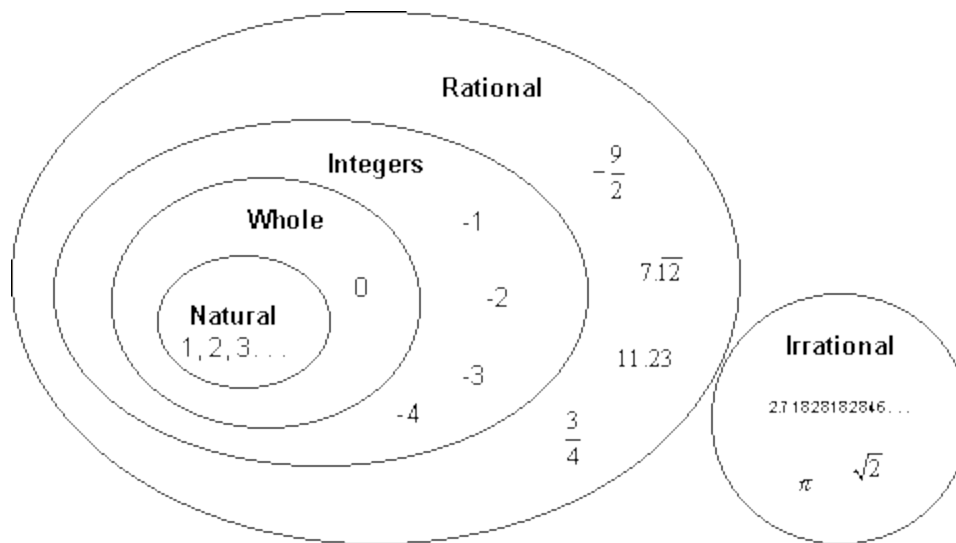
CIRCLE the FOLLOWING RATIONAL numbers:

$\frac{4}{5}$	$\frac{4.3}{5.6}$	0.009	$\sqrt{13}$
$-\sqrt{3}$	π	$\sqrt{64}$	34.7

Write three rational numbers:

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The REAL number system



Natural Numbers (\mathbb{N})

Natural numbers are the _____ (positive integers)

Whole Numbers (\mathbb{W})

Whole numbers are the counting numbers _____ (non-negative integers)

Integers (\mathbb{Z})

Integers are the natural numbers and their _____

No _____

Rational Numbers (\mathbb{Q})

A rational number is a number which can be expressed as a ratio/fraction of two integers.

Irrational Numbers: ($\bar{\mathbb{Q}}$)

The set of numbers that are _____