

1.1 continue

Aug. 31, 2006

\mathbb{N} → Natural Numbers
↳ $\{1, 2, 3, 4, \dots\}$

\mathbb{W} → Whole Numbers
↳ $\{0, 1, 2, 3, \dots\}$

\mathbb{Z} → Integers
↳ $\{\dots, -2, -1, 0, 1, 2, \dots\}$

\mathbb{R} → Real Numbers
↳ $\{\dots, -2, -1, \dots, 0, \dots, 1, 2, \dots\}$

\mathbb{Q} → Rational Numbers
↳ $\left\{ \frac{\mathbb{Z}}{\mathbb{Z}} \right\}$



Rational or Irrational

All \mathbb{Z}
are \mathbb{Q}

$$\frac{1}{2} \rightarrow \mathbb{Q}$$

$$\frac{-42}{1} \rightarrow \mathbb{Q}$$

$$\frac{17}{19} \rightarrow \mathbb{Q}$$

$$\pi \rightarrow \text{Not } \mathbb{Q}$$

because the
decimal Never
Ends.

3.14
(not rounded)

An IRRATIONAL number is a number that cannot be expressed as an exact ratio of two integers.

Swish design by Stephen Toner

Replay

For the complete song and lyrics, click on the authors' link below.

Words and Music by Ken Ferrier and Antoni Chan. Used with permission.

When is it true?

the Solution(s) can only come from \mathbb{N}

$$x + 3 = 12$$

$$\underline{\underline{\{9\}}}$$

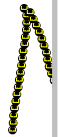
$$x + 3 > 12$$

$$\underline{\underline{\{10, 11, 12, \dots\}}}$$

Domains w/o Numbers

- 50 states
- Classes
- Cabinets/Fridge
- Taco Bell
- Employment
- Cloths

A



O.T.L.

② pg 4: Exp. 1-16 all