Natural Numbers (counting numbers)

Whole Numbers

Integers

Rational Numbers

Irrational Numbers

Real Numbers
Natural Numbers
- Whole Numbers
- Integers
- Rational Numbers
- Irrational Numbers

Real Numbers
Identify Sets

\[
\begin{align*}
1 \\
4 \\
8 \\
\sqrt{2} \\
\pi
\end{align*}
\]

The value of the bills in a wallet

The money collected for Words On Your Shirt
AUB → A union B

A={2,4,6,8}  B={1,2,3,4,5}

AUB ={1,2,3,4,5,6,8}

A∩B → A intersection B

A={2,4,6,8}  B={1,2,3,4,5}

A∩B={2,4}

The null set or empty set

A={2,4,6,8}  B={1,3,5,7}

A∩B=Ø

OR

A∩B={ }
CLOSED SETS

Is addition of whole numbers a closed set?

i.e. If you add 2 whole numbers do you **ALWAYS** get a whole number?

2+3=5

What happens when you add ANY 2 whole numbers?

This is a TRUE statement

Is subtraction of whole numbers a closed set?

i.e. If you subtract 2 whole numbers do you **ALWAYS** get a whole number?

5-3=2

What happens when you subtract ANY 2 whole numbers?

2-6=-4

Is -4 a whole number?

This is a FALSE statement