For each a in X, $a \in X \leftrightarrow a \in Y$.
How is this represented?

1

How else could we express:
$X \subseteq Y \leftrightarrow Y \subseteq X$

2

The set $\mathbb{N}$ contains?

3

The set $\mathbb{R}$ contains?

4

The set $\mathbb{Z}$ contains?

5

The set $\mathbb{Q}$ contains?

6

What does $X \subseteq Y$ mean?

7

What does $x \in X$ mean?

8

$X = Y$

1

$X = Y$

2

The set of natural numbers (all non-negative integers).

3

The set of real numbers (all finite and infinite decimal numbers).

4

The set of integers.

5

The set of rational numbers.
Contains all m/n for $m, nin\mathbb{Z}$

6

X is a subset of Y
Y is a superset of X
X is included in Y
Y includes X

7

x is contained in / is a member of X

8

What does $x \notin X$ mean?

9

What is this?
$\emptyset$

10

The null set.

x is not a member of X

10

9