



## Number Types (Real) - Set Builder Definition to Number - Whole, Natural, Integer, Rational, Irrational Numbers

1 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{W}\}$$

A  $\frac{0}{12}$

B  $\frac{\sqrt{41}}{4}$

C  $-4.\overline{14}$

2 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{Q}\}$$

A  $\frac{\sqrt{37}}{6}$

B  $\frac{9}{81}$

C  $\frac{\sqrt{89}}{1}$

3 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{N}\}$$

A  $\frac{\sqrt{47}}{7}$

B  $\sqrt{\frac{8}{2}}$

C  $\frac{4}{81}$

4 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$$

A  $\frac{0}{11}$

B  $-1.\overline{3}$

C  $\frac{\sqrt{59}}{2}$