



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

1 Select the narrowest set definition that matches this number type

5

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

B $\{a + bi \mid a, b \in \mathbb{R}\}$

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

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

Select the narrowest set definition that matches this number type

$-\frac{2}{3}$

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

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

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

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

3 Select the narrowest set definition that matches this number type

$-\frac{9}{10}$

A $\{a + bi \mid a, b \in \mathbb{R}, b \neq 0\}$

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

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

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

4 Select the narrowest set definition that matches this number type

$\sqrt{5}$

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

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

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

D $\{a + bi \mid a, b \in \mathbb{R}\}$

5 Select the narrowest set definition that matches this number type

19

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

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

C $\{x \mid x \in \mathbb{R}\}$

D $\{a + bi \mid a, b \in \mathbb{R}\}$

6 Select the narrowest set definition that matches this number type

$\sqrt{67}$

A $\{bi \mid b \in \mathbb{R}, b \neq 0\}$

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

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

D $\{x \mid x \in \mathbb{R}\}$

7 Select the narrowest set definition that matches this number type

22

A $\{x \mid x \in \mathbb{R}\}$

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

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

D $\{a + bi \mid a, b \in \mathbb{R}\}$

8 Select the narrowest set definition that matches this number type

$\sqrt{59}$

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

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

C $\{a + bi \mid a, b \in \mathbb{R}\}$

D $\{bi \mid b \in \mathbb{R}, b \neq 0\}$