

A Venn diagram showing the hierarchy of number systems. It consists of four nested ellipses. The outermost ellipse is green and labeled \mathbb{R} (Reelle Zahlen). Inside it is a yellow ellipse labeled \mathbb{Q} (Rationale Zahlen). Inside the yellow ellipse is an orange ellipse labeled \mathbb{Z} (Ganze Zahlen). The innermost ellipse is red and labeled \mathbb{N} (Natürliche Zahlen). Examples of numbers are provided for each system: $\sqrt{2}, \sqrt{3}, \dots, \pi, 2\pi, \dots$ for \mathbb{R} ; $-\frac{1}{2}, \frac{22}{7}, \frac{355}{113}$ for \mathbb{Q} ; $0, -1, -2, \dots$ for \mathbb{Z} ; and $1, 2, 3, 4, \dots$ for \mathbb{N} .

$$\mathbb{R}$$

Reelle Zahlen

$\sqrt{2}, \sqrt{3}, \dots,$
 $\pi, 2\pi, \dots$

$$\mathbb{Q}$$

Rationale Zahlen

$-\frac{1}{2}, \frac{22}{7}, \frac{355}{113}$

$$\mathbb{Z}$$

Ganze Zahlen

$0, -1, -2, \dots$

$$\mathbb{N}$$

Natürliche Zahlen

$1, 2, 3, 4, \dots$