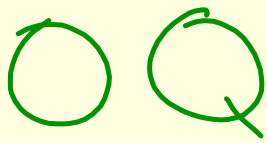


# Unit 1: Functions and Numbers

Ch.1 Number and Algebra

1.1: The Number Sets



**IN-N-OUT**  
®  **CHALLENGE**

**IN**

**OUT**

A E F H K L T

B C D G J O U

---


~~C E H I K O X~~

F G J M P Q Z

---

B C D G P T V

A F H J L R W



**IN** **OUT**

$-1.4$   
 $6.02 \times 10^{23}$   
 $\sqrt{49}$   
 $-1$   
 $-4$   
 $3$   
 $\sqrt{31}$   
 $\sqrt{2}$   
 $-\frac{32}{9}$   
 $0$   
 $5.2$   
 $2.5 \times 10^{-1}$   
 $\frac{3}{4}$   
 $\pi$





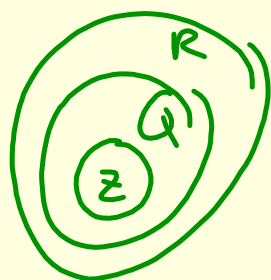
Did you get it?

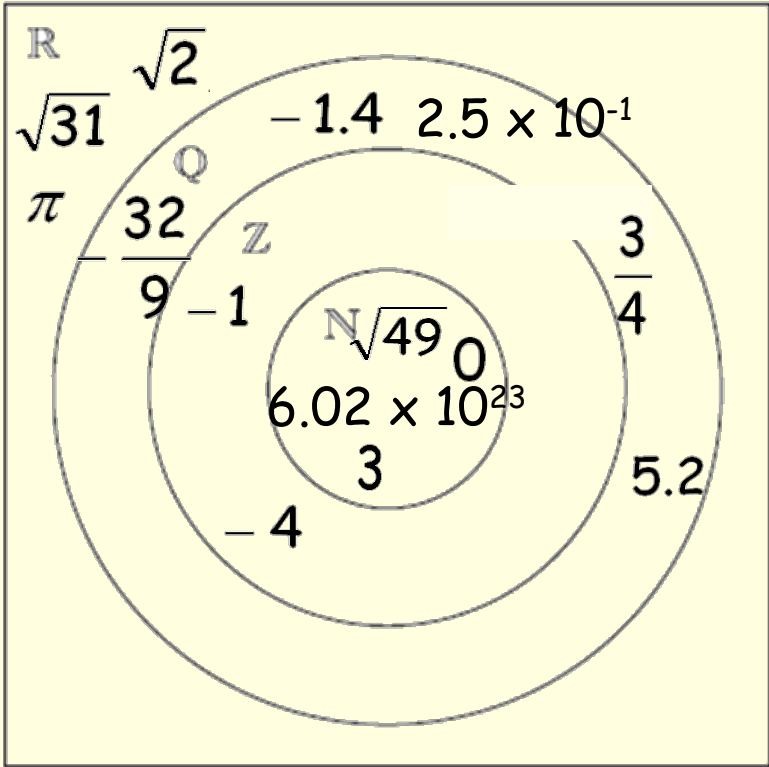
Consider the numbers 5, 0.5,  $\sqrt{5}$ , and -5. Complete the table below, showing which of the number sets,  $\mathbb{N}$ ,  $\mathbb{R}$  and  $\mathbb{Q}$ , these numbers belong to.

	$\mathbb{N}$	$\mathbb{R}$	$\mathbb{Q}$
5	✓	✓	✓
0.5	x	✓	✓
$\sqrt{5}$	x	✓	x
-5	x	✓	✓

Given  $Z$  the set of integers,  $Q$  the set of rational numbers, and  $R$  the set of real numbers:

- a) Write down an element that belongs to  $R \cap Z$ .  $-3, -2, 1, 0$
- b) Write down an element that belongs to  $Q \cap Z$ .  $2.5, -\frac{1}{2}$
- c) Write down an element that belongs to  $Q'$ .  $\sqrt{2}, \sqrt{5}, \pi, e$
- d) Use a Venn diagram to represent the sets  $Z$ ,  $Q$  and  $R$ .







How can we remember this?

N

R

Z

Q

Q

Z

R

N

## Homework Assignment:

Students will read pgs.2-11

Students will complete pgs.4-10: 1A, 1B, 1C (1 only), 1D, 1E.