

For each element in the set  $\left\{5, -3, \frac{1}{2}, 0, \sqrt{11}, -|-4|, \frac{38}{19}, 4\frac{2}{3}, 0.\overline{389}, \sqrt{64}, 0.4041424344\dots, \sqrt{-2}, \frac{\pi}{2}, \frac{1}{\sqrt{5}}\right\}$ , indicate which set the number belongs to in the table.

| Number               | Natural Number | Whole Number | Integer | Rational Number | Irrational Number | Real Number | None of these |
|----------------------|----------------|--------------|---------|-----------------|-------------------|-------------|---------------|
| 5                    |                |              |         |                 |                   |             |               |
| -3                   |                |              |         |                 |                   |             |               |
| 1/2                  |                |              |         |                 |                   |             |               |
| 0                    |                |              |         |                 |                   |             |               |
| $\sqrt{11}$          |                |              |         |                 |                   |             |               |
| $- -4 $              |                |              |         |                 |                   |             |               |
| 38/19                |                |              |         |                 |                   |             |               |
| $4\frac{2}{3}$       |                |              |         |                 |                   |             |               |
| $0.\overline{389}$   |                |              |         |                 |                   |             |               |
| $\sqrt{64}$          |                |              |         |                 |                   |             |               |
| 0.4041424344...      |                |              |         |                 |                   |             |               |
| $\sqrt{-2}$          |                |              |         |                 |                   |             |               |
| $\frac{\pi}{2}$      |                |              |         |                 |                   |             |               |
| $\frac{1}{\sqrt{5}}$ |                |              |         |                 |                   |             |               |

Give an example of a number that fits the following criteria (if it's possible):

- A number which is both a rational number and an integer
- A number which is both real and irrational
- A number which is irrational and an integer
- A number which is a counting number but not an integer
- A number which is not a real number