

1. Which of the following numbers is irrational?

- a. 0.25
- b. $\sqrt{9}$
- c. $1/3$
- d. -5

2. What type of number is 5.75?

- a. Rational
- b. Irrational
- c. Integer
- d. Whole

3. Which of the following is not a rational number?

- a. 0.6
- b. -2
- c. $\sqrt{16}$
- d. $3/4$

4. If x is an irrational number, what can be said about $2x$?

- a. It is rational
- b. It is irrational
- c. It depends on the value of x
- d. It is always negative

5. The square root of which number is irrational?

- a. 25
- b. 49
- c. 81
- d. 121

6. What is the sum of a rational number and an irrational number?

- a. Always rational
- b. Always irrational
- c. Sometimes rational, sometimes irrational
- d. Can't be determined

7. Which of the following is an irrational number between 3 and 4?

- a. 3.5
- c. 3.75
- b. $\sqrt{10}$
- d. -3

8. If a number can be expressed as a fraction of two integers, it is:

- a. Always irrational
- c. Always rational
- b. Always a whole number
- d. Always prime

9. If p is a prime number, what can we say about \sqrt{p} ?

- a. Always rational
- c. Sometimes rational, sometimes irrational
- b. Always irrational
- d. Depends on the specific value of p