1. **Which of the following numbers is irrational?**

   a. 0.25

   b. √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. √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

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

a. 3.5

b. $\sqrt{10}$

c. 3.75

d. -3

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

a. Always irrational

b. Always a whole number

c. Always rational

d. Always prime

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

a. Always rational

b. Always irrational

c. Sometimes rational, sometimes irrational

d. Depends on the specific value of p

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