

The Real Number System

Name the sets of numbers to which each number belongs: whole (W), integers (Z), rational (Q), irrational (I) or real (R).

1. 4
2. $\frac{1}{4}$
3. $2\bar{6}$
4. -5.8
5. $\sqrt{36}$
6. $\sqrt{13}$
7. $\frac{4}{3}$
8. $\sqrt{5}$
9. $-\sqrt{25}$
10. -9
11. $\sqrt[4]{484}$
12. 0.58333...
13. $-3\frac{1}{3}$
14. 3.1428054...
15. -1.5

Square Roots and the Real Number System

Find the square root of the following numbers (or estimate to the nearest tenth). Then classify them as Real, Rational or Irrational, Integers, and Whole Numbers.

The first row is an example!

	sq. root/est	R	Q	I	Z	W
$\sqrt{81}$	9	✓				
$\sqrt{390}$			✓			
$\sqrt{49}$						
$\sqrt{42}$						
$-\sqrt{44}$						
$\sqrt{250}$						
$\sqrt{100}$						
$\sqrt{289}$						
$\sqrt{400}$						
$-\sqrt{455}$						
$\sqrt{324}$						
$\sqrt{144}$						
$-\sqrt{190}$						
$\sqrt{369}$						
$\sqrt{24}$						
$\sqrt{90}$						
$-\sqrt{9.8}$						
$\sqrt{576}$						
$\sqrt{220}$						
$\sqrt{169}$						