Name _____

# Real, Real, Real Numbers!!!

**Name all of the sets of numbers to which each real number belongs. Let W = whole numbers, Z = integers, Q = rational numbers, and I = irrational numbers.**

**1.** 12 **2.** 25 **3.** $-5$

**4.** $\frac{1}{8}$ **5.** $\frac{1}{9}$ **6.** 0.343434. . .

**7.** $\sqrt{31}$ **8.** $\sqrt{7}$ **9.** $\frac{25}{3}$

**10.** $-\frac{32}{4}$ **11.** 6.54 **12.** 24.6

**13.** 418 **14.** 0 **15.** 0.050050005 . . .

**Determine whether each statement is *sometimes*, *always*, or *never* true.**

**16.** A whole number is a rational number.

**17.** A rational number is a whole number.

**18.** A negative number is an integer.

**19.** Zero is an irrational number.

**Replace each ⊜ with <, >, or = to make a true statement.**

**20.** $\sqrt{4}$ ⊜ $2\frac{3}{7}$ **21.** $\sqrt{5}$ ⊜ 2.1

**22.** $-\sqrt{12}$ ⊜ $-3.5$ **23.** $\sqrt{104.04}$ ⊜ 10.2

**24.** 7.8 ⊜ $\sqrt{55}$ **25.** 15.1 ⊜ $\sqrt{231}$

**Order each set of numbers from least to greatest.**

**26.** $5\frac{1}{3}$, 5.3, $\sqrt{28}$, $2\frac{1}{4}$

**27.** $\sqrt{53}$, $7\frac{1}{4}$, $\frac{36}{5}$, 7.27

**28.** $-9.35$, $-\sqrt{72.75}$, $-9\frac{2}{10}$, $-9$

**ALGEBRA Solve each equation. Round to the nearest tenth, if necessary.**

**29.** $a^2 = 64$ **30.** $d^2 = 169$ **31.** $f^2 = 441$

**32.** $76 = g^2$ **33.** $115 = h^2$ **34.** $k^2 = 450$

**35.** $b^2 = 4.41$ **36.** $y^2 = 0.36$ **37.** $m^2 = 0.0025$