

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.

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|--------------------|------------------|--------------------|
| 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 \odot with $<$, $>$, or $=$ to make a true statement.

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|-----------------------------------|--------------------------------|
| 20. $\sqrt{4} \odot 2\frac{3}{7}$ | 21. $\sqrt{5} \odot 2.1$ |
| 22. $-\sqrt{12} \odot -3.5$ | 23. $\sqrt{104.04} \odot 10.2$ |
| 24. $7.8 \odot \sqrt{55}$ | 25. $15.1 \odot \sqrt{231}$ |

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.

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|------------------|------------------|--------------------|
| 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. $m^2 = 0.0025$ |

NAME _____

DATE _____

Period _____

Pre Algebra

Practice with the Real Number System

In the table below, use a check mark to indicate the sets to which each number belongs.

	WHOLE NUMBERS	INTEGERS	RATIONAL NUMBERS	IRRATIONAL NUMBERS	REAL NUMBERS
1) -5					
2) $\sqrt{7}$					
3) 0.876					
4) $\frac{3}{4}$					
5) $-7\frac{1}{2}$					
6) 6.32947684...					
7) 8.5					
8) $\overline{.67}$					
9) $\sqrt{49}$					
10) -2.63					