

Real Numbers & the Number Line

Name _____ Per _____ A# _____

Simplify each expression.

- | | | |
|------------------|---------------------------|----------|
| 1. $\sqrt{36}$ | 2. $\sqrt{\frac{25}{81}}$ | 1. _____ |
| 3. $\sqrt{0.09}$ | 4. $\sqrt{400}$ | 2. _____ |
| | | 3. _____ |
| | | 4. _____ |

Name the subset(s) of the real numbers to which each number belongs.

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|----------------------------|------------------|----------------|-----------|
| 5. -4 | 6. 3.14 | 7. $\sqrt{12}$ | 5. _____ |
| | | | 6. _____ |
| 8. $\frac{-2}{7}$ | 9. $-\sqrt{121}$ | | 7. _____ |
| | | | 8. _____ |
| 10. $4.\bar{5}$ | 11. 0 | | 9. _____ |
| | | | 10. _____ |
| 12. π | 13. $\sqrt{0}$ | | 11. _____ |
| | | | 12. _____ |
| 14. $\sqrt{\frac{25}{81}}$ | 15. -2.3 | | 13. _____ |
| | | | 14. _____ |
| | | | 15. _____ |

Always, sometimes, or never.

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|---|--|
| 16. Negative numbers are irrational. | 16. _____ |
| 17. Negative numbers are integers. | 17. _____ |
| 18. Fractions are integers. | 18. _____ |
| 19. Fractions are rational. | 19. _____ |
| 20. Integers are rational. | 20. _____ |
| 21. Whole numbers are negative. | 21. _____ |
| 22. Square roots are irrational. | 22. _____ |
| 23. Natural numbers are whole. | 23. _____ |
| 24. Whole numbers are natural. | 24. _____ |
| 25. Irrational numbers are integers | 25. _____ |
| 26. Order the numbers from least to greatest : $\frac{-2}{3}, -1, \sqrt{8}, \frac{9}{3}, \pi, 3.14, 3.\bar{1}$ | 26. _____ |
| 27. Find the approximate side length of each square figure to the nearest whole unit. | |
| a.) a tabletop with an area 25 ft^2 _____ | b.) a wall that is 105 m^2 _____ |