

Name: _____

Period: _____

Math 8 Review: Expressions and Equations

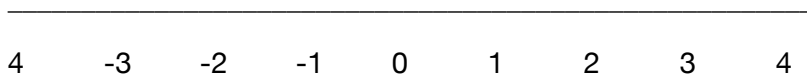
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|--------------------------|-------------------------------------|
| 1. $3^2 \times 3^{-5} =$ | 6. $3^0 \times 3^3 \times 3^{-1} =$ |
| 2. Square root of 36 | 7. Cube root of 125 |
| 3. Square root of 121 | 8. Cube root of 8 |
| 4. Square root of 1 | 9. Cube root of 1 |
| 5. Square root of 64 | 10. Cube root of 64 |

Scientific Notation:

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|---|--|
| 11. 10,654 | 12. 345 |
| 13. 0.000333 | 14. 0.123 |
| 15. $8.0 \times 10^3 \times 5.0 \times 10^{-6}$ | 16. $3.0 \times 10^2 \times 2.0 \times 10^5$ |

Irrational numbers

- | | |
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| 17. State qualities of irrational numbers | 18. Square root of 2 on the number line: |
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19. What is the linear equation when the slope is $\frac{2}{3}$ and the y-intercept is (0,1)?
20. Graph the line of question number 19.
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21. $y = 3(x+4)$. What is the linear equation in slope/intercept form?
22. Where does this line intercept the y-axis? $y = 3x$
23. Find the equation of a line which contains these two points: (3,9) and (6,11).
24. Formulas for the areas of: square, rectangle, circle, triangle
25. If the slope of line A is 4, what is the slope of a line that is perpendicular to the line A?