

Table of Contents (8th Grade Math)

Checkpoint #1

1. Solving One-Step Equations
2. Solving Two-Step Equations
3. Solving Multi-Step Equations
4. Solving Equations with Variables on Both Sides
5. Rewrite Equations and Formulas
6. Solving Inequalities
7. Exponents
8. Product of Powers Property
9. Quotient of Powers Property
10. Zero and Negative Exponents
11. Estimating Quantities
12. Scientific Notation
13. Operations in Scientific Notation
14. Finding Square Roots
15. Finding Cube Roots
16. Rational Numbers
17. Irrational Numbers

Checkpoint #2

18. Graphing Linear Equations
19. Slope of a Line
20. Graphing Proportional Relationships ($y=mx$)
21. Graphing Linear Equations in Slope-Intercept Form
22. Graphing Linear Equations in Standard Form
23. Writing Equations in Slope-Intercept Form
24. Writing Equations in Point-Slope Form
25. Relations and Functions
26. Representations of Functions
27. Linear Functions
28. Comparing Linear and Nonlinear Functions

Checkpoint #3

29. Translations
30. Reflections
31. Rotations
32. Pythagorean Theorem #1
33. Pythagorean Theorem #2
34. Converse of the Pythagorean Theorem
35. Volume of a Cylinder
36. Volume of a Cone
37. Volume of a Sphere
38. Surface Area of a Sphere
39. Volume of a Pyramid

Other Topics

40. Adding and Subtracting Polynomials
41. Multiplying and Factoring Polynomials
42. Multiplying Binomials (FOIL)
43. Squaring Polynomials and the Product of a Sum and Difference
44. Factoring (x^2+bx+c)
45. Factoring (ax^2+bx+c)
46. Factoring Special Cases
47. Factoring by Grouping