

Algebra

Assignment 1: Basic Addition and Subtraction Skills

Add or Subtract. Show your work on this paper or another sheet of paper.

*If you show your work on another sheet, then that sheet MUST be stapled to your worksheet to get credit for assignment.

1. $14 + (-34)$

2. $-12 + -23 + 22$

3. $32 - (-18)$

4. $-11 - 20$

5. $-8 + 14 - (-5)$

6. $3 \frac{2}{5} + 2 \frac{4}{7}$

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Assignment 2: Basic Multiplication and Division Skills

Multiply or Divide. Show all your work on this paper or another sheet of paper.

1. $5(-3)(2)$

7. $4/5 \div 2/5$

2. $(-7)(-12)(-3)$

3. -4^3

8. $16 \div 1 \frac{7}{8}$

4. $\frac{-8(4)}{-2}$

9. $8/45 \div 10/27$

5. $\frac{-4 - 12}{3 + 1}$

6. $3/5 \times 10/12$

10. 0.234×3.6

11. $\frac{0.875}{2.5}$

12. $5.36 \div 0.02$

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Assignment 3: Solving equations and inequalities

Solve each equation or inequality. Show all your work on another sheet of paper (including checking your solution for each equation.) Equations may give you **all numbers** and/or **no solution** as an answer.

1. $44 = -4 + 8x$

7. $K + (-4) < 9$

2. $-3x - 11 = -25$

8. $-14 + y > -2$

3. $15 - 4c = -21$

9. $-5x < 45$

4. $6 - x = -13$

10. $2m + 1 < -9$

5. $5x - 8 = 3x + 12$

6. $5y + 9 = 3y$

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Assignment 4: Graphing Equations and Inequalities

Graph each equation or inequality on graph paper by using the slope and y intercept. (Normally you want the equations to be in $y = mx + b$ form to easily graph it.) Remember to shade one side of the graph when graphing inequalities.

1. $y = \frac{1}{2}x + 3$

7. $y < -2x + 3$

2. $x = 3$

8. $y > -\frac{3}{4}x - 1$

3. $y = 3x - 4$

9. $x + y > -2$

10. $-3x + y < 4$

Find the slope of the line that passes through each pair of points.

11. A(3, 8), B(4, -3)

12. C(-2, 3), D(-4, -5)

13. E(3, -6), F(-2, 9)