

Algebra I Summer Review**I. Solve Each Equation.**

(1) $x - 3 = 22$ _____

(2) $y - -12 = 22$ _____

(3) $2x + -15 = 23$ _____

(4) $\frac{3}{8}g = 3$ _____

(5) $\frac{1}{6}g + \frac{3}{15} = \frac{3}{5}$ _____

(6) $5x - 15 = 3x - 1$ _____

(7) $\frac{5t - 5}{-5} = 20$ _____

(8) $-x - \frac{3}{5} = \frac{2}{6}$ _____

(9) $y - \left(-\frac{1}{2}\right) = \frac{2}{3}$ _____

(10) $\frac{2}{7}x + \left(-\frac{3}{21}\right) = \frac{4}{7}$ _____

(11) $\frac{3}{8}g = \frac{8}{3}$ _____

(12) $-\frac{1}{6}g - \frac{3}{15} = \frac{3}{5}$ _____

(13) $4x - 15 = 3x - 1$ _____

(14) $\frac{5t - 5}{2} = -20$ _____

(15) $\frac{3}{4} = y + \frac{1}{4}$ _____

(16) $f = \frac{5}{16} - \frac{2}{16}$ _____

(17) $2\frac{5}{16} = g + 1\frac{2}{32}$ _____

(18) $x - \frac{2}{5} = \frac{4}{15}$ _____

(19) $-6\frac{2}{3} - 5\frac{1}{2} = p$ _____

(20) $j - \frac{3}{5} = \frac{8}{10}$ _____

(21) $y + 7.8 = -4.9$ _____

II. Solve each inequality.

(22) $m - 3 < -17$ _____

(23) $-9 + d > 9$ _____

(24) $7h - 1 \leq 6h$ _____

(25) $6w + 4 \geq 5w + 4$ _____

(26) $x + \frac{1}{2} \leq 4\frac{1}{2}$ _____

(27) $-\frac{3}{4}y \geq 3$ _____

(28) $-r - 5 < 4 + 10r$ _____

(29) $7 + 3y > 2(y + 3) - 2(-1 - y)$ _____

III. Simplify each expression.

(30) $37.7w + 21.8w$ _____

(31) $17y - 3.7y + 13.85y$ _____

(32) $5.93 + m(2.1 - 4.09)$ _____

IV. Write an equation for the problem. Then solve the equation.

(33) One half of a number is 13. What is the number?

(34) Three less than fifty-two times a number is ninety-eight. What is the number?

(35) Three times a number equals 66. What is the number?