Algebra 1 Unit 2 Review

[1] $-19 = -8 + x$

[2] $-4 = \frac{x}{-3}$

[3] $-3(x - 2) = 78$

[4] $x + 4 = 3x - 5x + 10$

[5] $2(x + 5) - 10 = 3(x - 2) - 3$

[6] $x < 3$ 

[7] $x \geq 7$ 

[8] $\frac{x}{4} > 5$ 

[9] $-2(6 + 3n) > -48$ 

[10] $-1 < -3 + 2n < 9$ 

[11] $x - 3 \geq 12 \; and \; \frac{x}{-7} \geq 1$ 

[12] $-3x - 4 < -7 \; or \; -2x + 1 > 5$ 

[13] $|3x - 2| = 4$

[14] $|2x + 1| = -111$

[15] $|12 - 4x| < 16$ 

[16] 331 students went on a field trip. Six buses were filled and 7 students traveled in cars. How many students were in each bus?

[17] Brenna's birthday party costs $45, plus an additional $4 for each guest she invites. What is the maximum number of guests there can be if Brenna can afford to spend a total of $525 on her birthday party?

[18] Simplify: $72\left(\frac{8}{9}\right)\left(\frac{5}{4}\right) - 62$

[19] $-\frac{4}{3}x - \frac{32}{9} - x = -\frac{3}{2}x + \frac{5}{3}x - \frac{4}{3}$

[20] Solve $x = \frac{4-k}{6}$ for *k*

[21] *A = P + Prt* for *t*.

[22] $x - \frac{3}{5} = \frac{1}{2}$