

Bellwork Friday, March 21, 2014

1. There are 1170 students in a school. The ratio of girls to boys is 23:22. The system of equations below describes the relationships between the number of girls and boys.

$$g + b = 1170 \quad \frac{g}{b} = \frac{23}{22}$$

Use substitution to find the number of boys and girls in the school.

2. Use substitution to solve the following system of equations.

$$\begin{aligned} r &= t + 3 \\ t + r + s &= 20 \\ t + 5r + 10s &= 129 \end{aligned}$$

3. Solve this system of equations using Elimination

$$\begin{aligned} -4x + 5y &= 19 \\ 4x - 3y &= -13 \end{aligned}$$

4. Solve this system of equations using Elimination

$$\begin{aligned} 8c - 3d &= 4 \\ 5c - 3d &= -2 \end{aligned}$$