

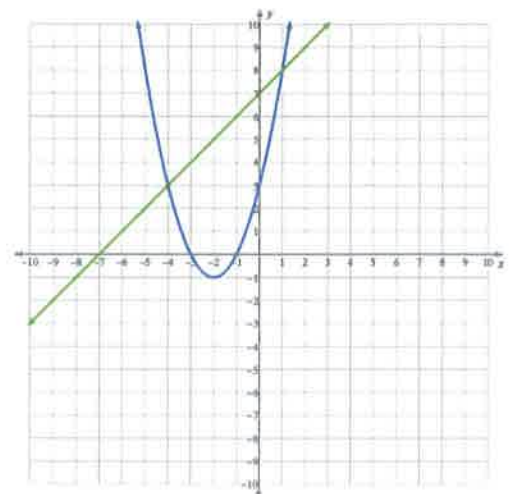
Name:

Date:

Hour:

Algebra 1
WS Linear Systems Application

1. Lisa sold tickets for a local play. Children's tickets cost \$4 each and adult tickets cost \$6 each. If 383 tickets were sold for a total of \$2034, how many of each type of ticket were sold?
2. A test is worth 100 points and has 28 problems. There are 3 point problems and 4 point problems on the test. How many of each type of problem will be on the test?
3. A standardized test has 125 questions worth a total of 1300 points. The test has two types of questions: true/false and multiple choice. Each true/false is worth 8 points and each multiple choice question is worth 14 points. How many of each type of question is on the test?
4. What are the solutions to the system of equations?



Solve each system.

$$\begin{aligned} 5) \quad & -3x - 5y = 3 \\ & -2x + 3y = -17 \end{aligned}$$

$$\begin{aligned} 6) \quad & -5x + 3y = -3 \\ & y = -2x + 10 \end{aligned}$$

$$\begin{aligned} 7) \quad & y = -2x - 13 \\ & y = -3x - 21 \end{aligned}$$

Solve each system by graphing.

$$\begin{aligned} 8) \quad & 6y - 3x = 24 \\ & -1 - 2x = y \end{aligned}$$

