

T3-11 Number _____ Name _____ Period _____

Solve each situation using a system of linear equations.

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) Kelly has 36 coins in her purse. All of these coins are only nickels and quarters. She has eight more quarters than nickels. If she has a total of \$6.20, how many nickels and quarters does she have?

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 question is worth 8 points, and each multiple choice question is worth 14 points. How many of each type of question is on the test?

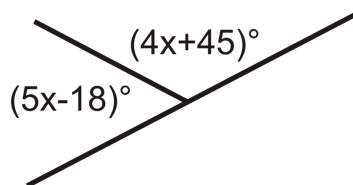
4) Super J-mart will sell 5 large jars and 2 small jars of their jelly for \$19. They will also sell 2 large jars and 5 small jars for \$16. What is the price of each jar?

5) There were 330 people at a play. The admission price was \$3 for adults and \$1 for children. The total amount of money made for the night was \$650. How many adults and how many children attended?

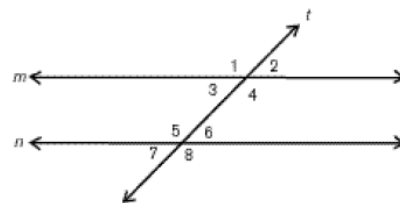
6) Write the equation of the line, in slope-intercept form, that goes through the points $(-7, 5)$ and $(4, -17)$.

7) Is the number $4.\overline{89}$ a rational or irrational number? Explain how you know.

8) What is the value of x in the figure below?



9) If $m\angle 2 = 55^\circ$, find all the other angles



10) The scale on a map shows that 1.5 in = 20 miles. You are trying to get from Pleasant Grove to Los Angeles and figured out that the two cities are 48.75 inches apart, how many miles apart are the two cities?