Systems of linear equations word problems

1.Ricardo had two types of homework assignments for his college math class. The amount of mmm mini assignments he had was one fewer than twice the amount of l long assignments he had. If he had a total of 46 mini and long assignments, which of the following systems of equations can be used to find out how any mini and long assignments he had?

A.$m=2l-1$
  $m+l=46$

B.$m=2l-1$
  $m=l+46$

C.$l=2m-1$
  $m+l=46$

D.$l=2m-1$
  $m=l+46$

2.A vegetable stand sells p pumpkins for $5.00 each and s squashes for $3.00 each. On Monday, the stand sold 6 more squashes than pumpkins and made a total of $98.00. Which system of equations can be used to determine the number of pumpkins and squashes sold?

A.$3p+5s=98$
   $s=p+6$

B.$3p+5s=98$
   $p=s+6$

C.$5p+3s=98$
   $s=p+6$

D.$5p+3s=98$
   $p=s+6$

3.Tickets for a concert were \$5 for each child and \$8 for each adult. At one of the concerts, each adult brought 4 children with them, and 10 children attended without an adult. The total ticket sales were \$1730. Which of the following systems of equations can be solved to determine the number of children, c, and adults, a, who attended the concert?

A.5c+8a=1730

  4a+10=c

D.5c+8a=1730

  4a−10=c

C.8c+5a=1730

  4a+10=c

D.8c+5a=1730

  4a−10=c

4.Today, the population of Canyon Falls is 22,500 and the population of Swift Creek is 15,200. The population of Canyon Falls is decreasing at the rate of 740 people each year while the population of Swift Creek is increasing at the rate of 1,500 each year. Assuming these rates continue into the future, in how many years from today will the population of Swift Creek equal twice the population of Canyon Falls?
A. 9 years
B. 10 years
C. 11 years
D. 12 years

5.For a high school dinner function for teachers and students, the math department bought 6 cases of juice and 1 case of bottled water for a total of $135. The science department bought 4 cases of juice and 2 cases of bottled water for a total of $110. How much did a case of juice cost?
A. $12.50
B. $15.00
C. $20.00
D. $25.00

Thanks

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