Name: _____ Per: _____

Best Choice Worksheet

State the BEST way to solve the system for ALL problems.
Solve each system using the BEST method.
State the answer as a point and BOX it.

1. $2x + 4y = -18$
   $5x - 4y = -3$
Elimination (-3, -3)

2. $3x = y + 23$
   $x = 3y - 11$
Substitution (10,7)

3. $2x + 4y = 16$
   $-2x + 4y = 24$
Elimination (-2,5)

4. $5x - 5y = 10$
   $3x + 3y = 18$
Elimination (4, 2)

5. $x + 3y = 7$
   $-5x - 3y = -11$
Elimination (1, 2)

6. $3x = y + 23$
   $x = 3y - 11$
Same as question 2

7. $x + 3y = -8$
   $x + 4y = -8$
Elimination or Substitution (-8, 0)

8. $-5x - 4y = 20$
   $2x - 8y = -8$
Elimination (-4, 0)

9. Find the value of the two numbers if their sum is 12 and their difference is 4.

The first number is 4 and the second number is 8.

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10. The school that Stefan goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 senior citizen tickets and 1 child ticket for a total of $38. The school took in $52 on the second day by selling 3 senior citizen tickets and 2 children's tickets. Find the price of a senior citizen ticket and the price of a child's ticket.

Seniors cost $8.00 and children cost $14.00.

11. A store sold a total of 125 car stereo systems and speakers in one week. The car stereo systems were sold for $104.95, and the speakers sold for $18.95. The total sales from these two items totaled $6926.75. How many car stereo systems and speakers were sold?

They sold 53 stereos and 72 speakers.

12. On the windowsill is a plant that is 35 centimeters tall. It is growing 5 centimeters per week. A second plant, which is 41 centimeters tall, is on the coffee table. It is growing 3 centimeters per week. Eventually the two plants will be the same height. At what week will the plants be the same height in centimeters?

In 3 weeks both plants are 50 cm tall.

13. A nature center charges $35.25 for a yearly membership and $6.25 for a single admission. Last week it sold a combined total of 50 yearly memberships and single admissions for $660.50. How many memberships and how many single admissions were sold?

They sold 12 yearly memberships and 38 single admissions.