

NAME: _____

P.I. A.A.7: Analyze and solve verbal problems whose solution requires solving systems of linear equations in two variables

1. The ratio of Arias to Lujans was 6 to 7. If their combined total at the wedding was 403, how many were not Arias?
2. The ratio of Diaz to Sedillas was 9 to 4. If their combined total at the wedding was 403, how many were not Diaz?
3. The ratio of Acostas to Ortegas was 4 to 5. If their combined total at the wedding was 396, how many were not Acostas?
4. The ratio of boys to girls in a school is about 3 to 5. There are about 800 students in the school. How many are boys? How many are girls?
5. The 1990 census showed the ratio of males to females in Cincinnati, Ohio to be about 4 to 5. The same census showed a total population of 360,000. About how many were males? About how many were females?
6. The ratio of flowers to shamrocks was 17 to 5, and three times the number of shamrocks was 40 less than the number of flowers. How many were flowers?
7. The ratio of clovers to diamonds was 11 to 4, and three times the number of diamonds was 14 more than the number of clovers. How many were clovers?
8. The ratio of horseshoes to shamrocks was 11 to 5, and two times the number of shamrocks was 12 less than the number of horseshoes. How many were shamrocks?
9. The ratio of horseshoes to hearts was 17 to 5, and three times the number of hearts was 40 less than the number of horseshoes. How many were hearts?
10. The ratio of clovers to sapphires was 13 to 2, and seven times the number of sapphires was 15 more than the number of clovers. How many were clovers?

- [1] 217
- [2] 124
- [3] 220
- [4] 300 boys and 500 girls
- [5] about 160,000 males and 200,000 females
- [6] 340
- [7] 154
- [8] 60
- [9] 100
- [10] 195