

SYSTEMS OF EQUATION PROBLEMS

- 1) A lady has some 2€ and 50-cent coins in her purse. She has 90 coins in all, and their total value is €105. How many 2€ coins does she have?
- 2) A father is 28 years older than his daughter. In 2 years' time he will be 3 times as old as his daughter. Find their present ages.
- 3) 353 people attend a local play at a private club. Members get tickets for \$2.75, while non-members have to pay \$6.50. If the total sum paid by the audience was \$1,762, how many members and non-members came to the play?
- 4) We mix two types of flour, one that costs 0.75 €/kg and another that costs 1.15 €/kg, and we want to obtain 50 kg of a mix which costs 1 €/kg. How much of each type of flour must we use in the mix?
- 5) On a test with 30 answers, students receive 2 points for each correct answer and lose 1 point for each incorrect answer. A boy who answered all of the test's questions got a score of 24 points. How many correct answers and how many incorrect answers did he give?
- 6) The owner of a sweet shop mixes two types of sweets. She decides to create a 20-pound mixture of raspberry-flavored gumdrops and cherry-flavored jelly beans. The gumdrops sell for \$0.95 per pound, and the jelly beans sell for \$1.20 per pound. She plans to sell the mix for \$1.10 per pound. How many pounds of each candy should she use in her mix?
- 7) A company employs 60 people. Of this amount, 16% of the men wear glasses and 20% of the women also wear glasses. If the total number of people who wear glasses is 11, how many men and women are there in the company?
- 8) I paid a €145 bill using some €10 and €5 notes. I handed over a total of 17 notes. How many of each note did I use?
- 9) Find two numbers that add up to 160 and that are separated by a difference of 6.
- 10) The difference between two numbers is 12 units. Half of the smaller number is equal to one-fifth of the larger number. What are the numbers?
- 11) A trader distributes 315 litres of oil in 1.5 litre and 0.75 litre bottles. If he fills 300 bottles, how many bottles of each capacity does he use?
- 12) You want to mix two types of wine that cost 5 €/litre and 3 €/litre respectively to obtain 25 litres of a mix that will cost 3.80 €/litre. How many litres of each type of wine do you need to mix?
- 13) I change a lot of 20 cent coins for 1 € coins, and now I have 12 coins less than I did before I changed them. How many 20 cent coins did I have?