

Name: _____

Solve problems

1.

Maria has a grocery store in the neighborhood where she lives. To boost sales, it makes price changes on some of its products in November and December, before the winter holidays:

cocoa, two successive discounts of 10% each;

sugar, a 20% increase, followed by a 15% reduction;

butter, two successive price increases of the same percentage, so that the final price is 144% of the original price.

Questions:

- What is the price of 1 box of cocoa, if it originally cost 8 lei?
- What was the price of a kg of sugar, if the final price is 3 lei?
- What is the percentage increase in the price of the packet of butter?

2.

Since Ioan wants to save up to open a guesthouse, he decides to use the services offered by his friend's bank, so he deposits 18,000 euro in the bank, at simple interest, for a period of 7 months, the interest rate being 15%.

- What amount can John get in 7 months?
- What should be the interest rate, for the deposited sum of 18,000 lei, to bring in 5 months an interest equal to that of 7 months?



