

Practice 2.2 (November 15)¹

You have to fill this poll <https://goo.gl/forms/taeaUUBDWUVVTVIi1> before Monday 14, 10 pm.

1. Compute: a) $2,5 \times 1,3 - 0,18$ b) $(3,7 + 0,4) \div 0,33$
2. Choose an appropriate interval and scale to represent numbers 3,0045, 3,0247, 3,1101, 3,0909, and 2,9809 in the following number line.



3. Represent as an irreducible fraction the following decimal numbers:

a) 2,73 b) $2,4\bar{7}$ c) $2,4\bar{7}$ d) $0,2\bar{9}$

4. © Consider the expression $1'0\bar{8} \div 2'\bar{7}$.
 - a) Compute the exact result.
 - b) Approximate the result to 2 decimal digits.
5. Is $\frac{72}{450}$ equivalent to a fraction whose denominator is a power of 10?
6. Urban population in a certain province is $\frac{5}{8}$ of the total, and the remaining $\frac{3}{8}$ are rural population. It is known that $\frac{1}{4}$ of the urban population and $\frac{1}{6}$ of the rural population are under 18 years. What proportion of the total population is less than 18 years old?
7. A lion can eat a sheep in 4 hours, a leopard needs 5 hours and a bear needs 6 hours. How long will take them to eat the sheep if they eat together at the same speed as when they eat alone?
8. There are four types of sandwiches in a counter. $\frac{1}{5}$ of them are Tuna, $\frac{1}{4}$ of them are either cheese or egg and the rest are chicken sandwiches. We know that there are three times as many cheese sandwiches as egg sandwiches.
 - a) What fraction of the sandwiches are chicken sandwiches?
 - b) What fraction of the sandwiches are egg sandwiches?
9. Luis and Nuria made greeting cards over two days. On Saturday, Nuria made 19 cards more than Luis. On Sunday, Nuria made another 20 cards, and Luis made another 15. If we know that over the weekend Nuria made $\frac{3}{5}$ of the total number of cards, how many cards did Luis make?
10. A costume shop bought some amount of costumes for carnival. One week before the carnival started they had sold $\frac{3}{7}$ of the amount they had ordered. During the last week, they rose the price and they sold $\frac{1}{4}$ less than previously. If we know that when the carnival started there were 24 costumes left, how many costumes did they order?
11. A teenager spent $\frac{1}{4}$ of his weekly pay in the cinema. After that, he spent $\frac{2}{5}$ of the rest in transportation. If we know that at the end of the week he spent 6 euros buying a book and he managed to save $\frac{1}{5}$ of the weekly pay, how much was his weekly pay?

¹The symbol © means that a problem can be solved with the help of a calculator.