

**Math 5b, homework 1.**



1. The sum of two natural number is 54. First number gives a remainder of 11 when divided by 17, the second gives a remainder 9 when divided by 17. What are these numbers?

2. Fill in the missing digits:

$$\begin{array}{r} \square 95 \\ + 3\square 4 \\ \hline 84\square \end{array}$$

$$\begin{array}{r} \square 20 \\ - 4\square 7 \\ \hline 36\square \end{array}$$

$$\begin{array}{r} \times \quad 2\square \\ \square 2 \\ \hline \square 8 \\ + 7\square \\ \hline 7\square 8 \end{array}$$

$$\begin{array}{r} \square\square\square\square\square \\ 9 \overline{) 71\square 84\square} \\ \underline{-\square\square} \phantom{00} \\ \square 1 \phantom{00} \\ \underline{-\square\square} \phantom{00} \\ \square\square \\ \underline{-\square\square} \phantom{00} \\ \square 6 \phantom{00} \\ \underline{-\square\square} \phantom{00} \\ \square \phantom{00} \end{array}$$

3. Apples lose 85% of their weight when dried. How much of dried apples can be made from 200 kg of fresh apples.
4. Mushrooms lose 90% of their weight when dried. How many fresh mushrooms did it take to get 5 kg of dried mushrooms.
5. Evaluate (the answer is 0.8 (or 4/5):

$$\frac{1\frac{1}{2} \cdot 2\frac{2}{3} \cdot 0.36}{0.6 \cdot 2\frac{1}{4} \cdot 1\frac{1}{3}};$$

6. In an elementary school there are 155 studens.  $\frac{3}{5}$  of them like math, half of the rest like language art. How many students do like language art?