Problem 1. Calculate $1 - 2 + 3 - 4 + 5 - 6 + 7 - \dots + 19 - 20$ Problem 2. Calculate $(-5) \times (-4) \times (-3) + (-4) \times (-3) \times (-2) + (-3) \times (-2) \times (-1)$ Problem 3. Calculate $(1 - 9) \times (2 - 8) \times (3 - 7) \times \dots \times (8 - 2) \times (9 - 1)$

Problem 4. By how much is the sum of negative integers greater than (–10) smaller than the sum of all natural numbers smaller than 10?

Problem 5. Find the greatest three-digit number xyz that has different even digits and where

Problem 6. The number 111...111, which is written using 21 ones, is divided by 3. How many digits 3 are there in the quotient?

Problem 7. If A(2; 2), B(1; 3), C (4,1), find the area of $\triangle ABC$

Problem 8. A rectangle that can be divided into three identical squares has an area of 363 cm2 . How many cm is the perimeter of this rectangle?

Problem 9. The average of 9 numbers is -11, and the average of 7 of them is -3. Find the average of the other 2 numbers.

Problem 10. A square with a side length of 3 cm and a triangle have equal perimeters and a common side. Find the length of the largest side of the triangle if it is measured in integer centimeters. Hint: Each side of the triangle is smaller than the sum of the other two sides.