## Math Exam — PreIB 3.AB

## Áďa Klepáčů

## February 21, 2024

- 1. Find the greatest common divisor of 2079 and 7623 using the Euclidean algorithm. Write down your calculations.
- 2. Determine whether the following system of congruences has a solution and, if it does, find the smallest solution. Write down your calculations.

 $x \equiv 2 \pmod{5}$ 

 $x \equiv 6 \pmod{8}$ 

 $x \equiv 3 \pmod{9}$ .