

Information

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This page contains all the problems for this test. The very last problem asks you to contact the person in charge of the exam and tell him or her the 4-digit key given in the problem text. In return you will be given a 5-digit signing code which you must give as the answer to the problem.

This problem does not count towards the final score, but **tests missing this code will not count towards the final grade.**

The following rules apply:

- Total time allowed: 30 minutes. The test will automatically close if time runs out.
- UiA's usual rules in regards to cheating on exams apply.

Question 1

Not yet answered

Marked out of 1.00

We use the notation $\{x \cdot n | n \in \mathbb{N}\}$ for all natural multiples of x .

Compute the following sets.

$\{4 \cdot n | n \in \mathbb{N}\} \cup \{20 \cdot n | n \in \mathbb{N}\} = \{ \text{ } \cdot n | n \in \mathbb{N} \}$

$\{30 \cdot n | n \in \mathbb{N}\} \cup \{6 \cdot n | n \in \mathbb{N}\} = \{ \text{ } \cdot n | n \in \mathbb{N} \}$

$\{9 \cdot n | n \in \mathbb{N}\} \cap \{27 \cdot n | n \in \mathbb{N}\} = \{ \text{ } \cdot n | n \in \mathbb{N} \}$

$\{16 \cdot n | n \in \mathbb{N}\} \cap \{22 \cdot n | n \in \mathbb{N}\} = \{ \text{ } \cdot n | n \in \mathbb{N} \}$

Question 2

Not yet answered

Marked out of 1.00

Complete the following division computations.

dividend	/	divisor	=	quotient	(remainder)
2377	/	176	=		()
−2134	/	174	=		()
	/	138	=	17	(78)
2911	/		=	14	(125)

Question 3

Not yet answered

Marked out of 1.00

Consider the following operators with precedence and associativity, where higher precedence is computed before lower priority.

The operations are "+" for addition, "-" for subtraction, "*" for multiplication, and "/" for integer division.

operator	precedence	associativity
-	4	right to left
+	3	right to left
*	2	left to right
/	1	right to left

Calculate the following expressions. If the expression cannot be calculated, write **und**, which is the STACK symbol for "undefined"

$6 + 7 - 7 - 7 =$

$2 + 12 * 8 + 12 =$

$2 * 12 / 12 / 12 * 8 =$

$7 * 6 + 2 + 12 / 8 * 12 =$

Question 4

Not yet answered

Marked out of 0.00

Signing code

Before dosing the test you must answer this problem with a signing code given to you by the person in charge of the test.

Tests missing this signing code will be ignored and will not count towards the final score.

Key: 136

Signing code:

