

QUIZ 1 (MATH 61, SPRING 2017)

Your Name: -----

UCLA id: -----

Math 61 Section: -----

Date: -----

The rules:

This is a multiple choice quiz. You must circle exactly one answer with an **ink** pen.

If two or more answers are circled, the answer is not accepted.

You are allowed to use only this paper and pen/pencil. No calculators.

No books, no notebooks, no web access. You **MUST** write your name and UCLA id in ink

Points: (10 per correct answer)

Let $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, $A = \{1, 2, 3, 4\}$, $B = \{3, 4, 5, 6\}$, $C = \{1, 3, 5, 7, 9\}$.

Question 1. The size $|\overline{B}|$ is equal to:

3 4 5 6 7

Question 2. The size $|A \cap C|$ is equal to:

1 2 3 4 5

Question 3. The size $|B \cup C|$ is equal to:

5 7 8 9 10

Question 4. In modular arithmetic, $18 - 2 \pmod 3$ is equal to

1 2 3 18 600

Question 5. We proved in class that regions in the plane separated by lines can be properly colored with how many colors:

1 2 3 4 5