

MAT.1420 – Mathematics for Elementary Teachers I  
**Test 1 Outline**

Some suggested “extra” practice problems for each of the sections included on the test:

Section	Page+	Problems
1.1		
13.1	p. 702	1, 2, 3
13.3	p. 736	1, 2, 3, 4, 5
2.1	p. 21	2, 3, 4, 5
2.2	p. 29	1, 5
2.3	p. 41	2, 3, 6, 7, 8, 9
2.4	p. 54	1, 2, 3, 5, 6, 9, 10, 11
3.1	p. 70	1, 3, 4, 6, 7, 8
3.2	p. 80	2, 3, 4, 5, 6
3.3	p. 88	1, 3, 4, 5, 6
3.4	p. 103	2, 3, 5, 6, 7
4.2	p. 146	2, 3, 4

Note: Each of these problems has answers on the following pages.

**Patterns & Sequences**

- Repeating
- Arithmetic
- Geometric
- Others

**Operations**

- Addition
- Subtraction
  - Take-away
  - Missing Addend
  - Comparison

**Numbers/Numeration**

- Whole Numbers
- Decimal Numbers
- Rational Numbers (Fractions)

**Computation**

- Algorithms
- Mental (Invented) Strategies

Use “thinking” strategies to complete the following computations. (Avoid a “traditional” algorithm!) Can you explain/show your thinking?

$43 + 24$

$58 + 22$

$71 - 36$

$33 + 26$

$68 + 29$

$33 + 47$

$98 + 43$

$57 - 39$

$54 - 21$

$34 - 29$

$89 + 22$

$181 - 49$

This is not comprehensive but should provide you with several things to work on as you prepare for the first test. Remember you should always be able to explain/justify your response. There is no “magic” in mathematics – there are always reasons! Why does it work? Why does it make sense?