MATH 01 - Arithmetic, Sec. 9767-D10

First test. Time allowed: two hours. Professor Luis Fernández

NAME:

**INSTRUCTIONS:** Solve the following exercises. **You must show work** in order to receive credit in any of the exercises. This includes all **sums**, **long divisions**, etc.

[10] **1.** Add:

**a)** 1253 + 6426

**b)** 14532 + 37489

c) 12153 + 243 + 13

d) 7567 + 2434

[10] **2.** Subtract:

**a)** 9653 - 6421

**b)** 4532 - 3489

c) 12153 - 173

**d)** 10001 - 4369

## [10] **3.** Multiply:

**a)**  $9653 \times 23$ 

**b)**  $4532 \times 344$ 

c) 121 × 1731

**d)** 4369 × 10001

[10] **4.** Divide:

**a)** 9653 ÷ 21

**b)** 4532 ÷ 348

**c)** 17299 ÷ 173

**d**) 23312 ÷ 232

[10] **5.** Find the average of the following sets of numbers:

a) 3,5,7,4,8,9. b) 32,54,37,45,67

[10] 6. Suppose that the final grade in this class is given by the average of the grades in four exams. If your grades in the first three exams are 92, 78 and 89, what do you need to get in the last exam so that your final average is 85?

[10] 7. Find the value of the following expressions.
a) 6+4×5
b) 4+6-5+12-4

c)  $2 \times 6^2 - (6+4) \times 5 - (8 \div 4 + 1)$  d)  $4 \times 6 \div 3 \div 2$ 



[10] **9.** Find the area of the following figure.



[5] 10. Convert the following improper fractions into mixed numbers.

a) 
$$\frac{7}{4} =$$
 b)  $\frac{172}{11} =$ 

[5]11. Convert the following mixed numbers into improper fractions.

**a**) 
$$3\frac{2}{5} =$$
 **b**)  $18\frac{16}{13} =$