MATH 01 - Arithmetic, Sec. 9777-D20
Third Test. Time allowed: two hours. Professor Luis Fernández
NAME:

## INSTRUCTIONS:

- Solve the following exercises.
- In order to receive credit in any of the exercises YOU MUST SHOW WORK.
- All the fractions in your answers must be written in lowest terms.
[4] 1. Add:
a) $5.14+14.4=$
b) $1352.07+0.032=$
[4] 2. Subtract:
a) $54.78-26.46=$
b) $143.806-0.076=$
[4] 3. Multiply:
a) $1.02 \cdot 14.002=$
b) $0.052 \cdot 123.4=$
[4] 4. Divide. Round off to the nearest hundredth.
a) $54.78 \div 12=$
b) $1.224 \div 0.025=$
[4] 5. Find the exact value of $84.4 \div 6=$
[6] 6. Convert. Do not forget to write all fractions in lowest terms.
a) 0.78 to percent.
b) 0.77 to fraction.
c) $47 \%$ to decimal.
d) $47 \%$ to fraction.
e) $\frac{4}{5}$ to decimal.
f) $\frac{4}{5}$ to percent.
[6] 7. Find
a) $\frac{7}{6}$ of 78 .
b) $31 \%$ of 57 .
[8] 8. Solve the following proportions.
a) $\frac{7}{3}=\frac{x}{21}$.
b) $\frac{50}{150}=\frac{73}{y}$.
[10] 9. What percent of 40 is 24 ?
[1010. 30 is $12 \%$ of what number?
[1011. Jane's annual salary was $\$ 28,450$. She got a $7 \%$ raise. What is her new annual salary?
[1012. Four students finish a class for every five students who begin. For 24 students to finish, how many must have begun the class?
[1013. On a test Bill answered 36 problems correctly and scored $75 \%$. How many problems were on the test?
[1014. In the following triangles, $\angle A=\angle A^{\prime}, \angle B=\angle B^{\prime}$, and $\angle C=\angle C^{\prime}$. Given the lengths in the picture, find the lengths of $\overline{A B}$ and $\overline{B^{\prime} C^{\prime}}$.

[10115. Add the following numbers.
a) $(-6)+(-4)=$
b) $(-41)+36$
c) $(-6.5)+(-44.2)=$
d) $5.1+(-14.2)$
e) $\left(-\frac{4}{5}\right)+\frac{2}{3}=$

