MATH 01 - Arithmetic, Sec. A
Third test. Time allowed: one hour. Professor Luis Fernández
NAME:
INSTRUCTIONS: Solve the following 22 exercises. Each is worth 5 points. You must show all your work in order to receive any credit. This includes all sums, long divisions, etc.

1. How much is $13 \%$ of 45 ?
2. What percent of 20 is 5 ?
3. $20 \%$ of what number is 10 ?
4. $12 \%$ of what number is 15 ?
5. How much is $\frac{3}{4}$ of 28 ?
6. Peter bought 6 toy cars for $\$ 33$. How much do 11 cars cost?
7. An ice cream factory makes 68 quarts of ice cream in 2 hours. How many quarts could be made in 15 hours?
8. The dosage of a certain medication is 5 ounces for every 60 pounds of body weight. How many ounces of the medication are required for a person who weighs 168 pounds?
9. 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 values of $x$ and $y$.

10. Evaluate $3 x+5$ when $x=5$
11. Given the formula $P=n R T$, find $P$ when $n=10, R=2, T=3$.
12. Suppose that $f(x)=2 x+4$. Find $f(2)$.
13. Evaluate $\frac{x+3 y}{2 x y}$ when $x=-2$ and $y=3$.
14. Given the formula $F=\frac{9}{5} C+32$, find $F$ when $C=35$.
15. Solve the equation $2 x+5=15$.
16. Solve the equation $-6 x+6=2-2 x$.
17. The formula $P=D(1+r)^{t}$ gives the amount of money in an investment after $t$ years when the initial invested amount is $D$ dollars and the interest rate is $r$ ( $r$ written as decimal). Find $P$ after 2 years when the initial investment was $\$ 1000$, at an interest rate of $10 \%$.
