Name:	
Date:	
Section:	

You MUST show your work to receive full credit. This exam is worth 100 points. Each problem is worth 4 points. Good Luck!

1. What is the numerical coefficient of the second term of 8A + 5X + 15B - 4BC?

Simplify by combining like terms:

2.	8x - 3 + 32x - 16	
3.	4a - 2(9a - 6)	
4.	-15a - 8 + 7b + 3a	
5.	9x - 4y + x + 4y	
6.	-2(5x + 3) -3	
7.	-5(x - 6) - 2(5x + 4)	

Solve each equation:

8.	x - 14 = 5	9.	-9y = 72
10.	7x = 56	11.	7y - 2 - 6y = 10
12.	-8y - 10 + 10y = 4	13.	4x - 5 = x + 1
14.	7(7x + 5) = 6(8x + 3)	15.	-2(x + 3) + 9x = 1
16.	12x - 7 - 3x = 8 + (-6)	17.	4(y - 5) = 8y
18.	3(5x - 7) = 2(7x - 3)	19.	9 + 2(7x - 4) = -27

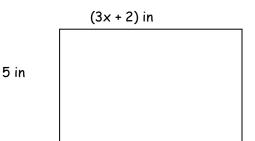
Write each as an equation, using "x" for a number:

- 20. The sum of four times a number and twelve is thirty four.
- 21. Three times the difference between a number and eight is equal to the quotient of the number and four.

Solve each application problem:

- 22. In a recent election, Tom received 450 more votes than his Democratic opponent, Mike. If a total of 966 votes were cast, how many votes did Tom receive?
- 23. A Ford Mustang is travelling three times as fast a Geo Metro in a 55 mph zone. They are travelling at a total speed of 100 mph. By how much is the driver of the Mustang speeding?

Find the perimeter (#24) and area (#25) of the following figure:



25.