Simplify the following by removing the parentheses, brackets, and braces as necessary:
  (3 pts. each)

1) $-(8a)=$

2) $-(x+z)=$

3) $-(-9a+7b-24)=$

4) $-(n+11)=$

5) $[1(-2x+3y)-6]=$

6) $-\{7-[9-(7+8)]\}=$

7) $3(4x+5)-[(12x+10)+5]=$

8) $[5(x+2)-3x]=$

9) $-[4\{4[3(y-2)-4(y+2)]-3\}]=$

10) $[5(x+2)-3x]-\{4[3(y-2)-4(y+2)]-3\}=$

Fill in the blanks:
 (3 pts. per question)

11)   62.4 is _____% of 156.

12)   108 is _____% of 800.

13)   74 is to 111, as, 17 is to _____.

14)   535.5 is to 714, as, 150 is to _____.

15)   1 inch is equal to _____ feet, which is the decimal equivalent of 1 inch.

Word problem : (5 pts.)

16)   A blueprint of a shopping mall is in the scale of 1" = 60'. One part of the mall is to be 220 feet long. How long will this be on the blueprint in inches?

Perform each of the indicated operations:
  (5 pts. each)

17) $\left(\dfrac{2}{3}\right)(3/8) =$

18) $\left(\dfrac{7}{10}\right) + \left(\dfrac{13}{-5}\right) =$

19) $t^4 \cdot t^3 \cdot t^3 =$

20) $r^6 \div r^{13} =$

21) $\left(-x^6\right)^2 =$

22) $\left(y^3\right)\left(1\!\!\left/\!\!{y^3}\right.\right) =$

23) $2x\left[4 + 3(-x - y)\right] =$

24) $4(4x + 3) + \left\{-2\left[2(3x + 3)\right] + 4\right\} =$