21) $8-4x<16$

$-8 \quad -8$

$-4x<8$

$\frac{-4x}{-4} < \frac{8}{-4}$

$x>-2$

22) $2y-9\le 5$

$+9 \quad +9$

$2y\le 14$

$y\le 7$

23) $-\frac{2}{3}g+7<9$

$-7 \quad -7$

$-\frac{3}{2}\cdot -\frac{2}{3}g < 2\cdot -\frac{3}{2}$

$g>-3$

24) $2x+7>x+10$

$-x \quad -x$

$x+7>10$

$-7 \quad -7$

$x>3$

25) $r+4<13-2r$

$+2r \quad +2r$

$3r+4<13$

$-4 \quad -4$

$\frac{3r}{3} < \frac{9}{3}$

$r<3$

26) $3j+2+2j>-10$

$j+2>-10$

$-2 \quad -2$

$j>-12$

27) $4(k-1)>4$

$4k-4>4$

$4k>8$

$k>2$

28) $8m-8<12+4m$

$-4m \quad -4m$

$4m-8<12$

$+8 \quad +8$

$4m<20$

$m<5$

29) $2(3f+2)\ge 4f+12$

$6f+4\ge 4f+12$

$-4f \quad -4f$

$2f+4\ge 12$

$-4 \quad -4$

$2f\ge 8$

$f\ge 4$

30) $h+2(3h+4)\le 1$

$h+6h+8\le 1$

$7h+8\le 1$

$-8 \quad -8$

$\frac{7h}{7} \le \frac{-7}{7}$

$h\le -1$

31) $2(5t-25)+5t<-80$

$10t-50+5t<-80$

$15t-50<-80$

$+50 \quad +50$

$\frac{15t}{15} < \frac{-30}{15}$

$t<-2$

32) $2\cdot\frac{1}{2}(2g+4)>-7\cdot 2$

$2g+4>-14$

$-4 \quad -4$

$2g>-18$

$g>-9$

33) $3\left(\frac{1}{3}x+2x-3>2\right)$

$x+6x-9>6$

$7x-9>6$

$+9 \quad +9$

$7x>15$

$x>15/7$

Solve each word problem

34) The sophomore class is planning a picnic. The cost of a permit to use the city park is $250. They are going to charge each sophomore $75 and each guest $1.25. If 200 hundred sophomores attend, how many guests must attend to pay for the cost of the park?

$(200)(.75)=150$

$150+1.25x\ge 250$

$x\ge 80$ guests

35) Joleen is a sales associate in a clothing store. Each week she earns $250 plus a $.03 on every dollar she sells. If Joleen wants to earn $450 dollars this week, how much money do here customers have to spend?

$250+0.03x\ge 450$

$x\ge \$6,666.67$