Name:
Period $\qquad$

## HW 1-8 Solving Multi-Step Equations

Solve. Give the exact value of the variable (Leave as a fraction in simplest
form or as a whole number. NO DECIMALS)

## Score:



1) $-9 \mathrm{z}=21-3 \mathrm{z}$
2) $21-13+10 \mathrm{r}=12 \mathrm{r}+9 \mathrm{r}-2$
3) $-14 \mathrm{c}-7=-\mathrm{c}+19$
4) $-5(3-6 x)=21-3(4 x-2)$
5) $18 \mathrm{k}-\mathrm{k}+9=7 \mathrm{k}-5+14$
6) $8+44 g-28=54$
7) $\frac{8 n-(-2)}{-6}=9$
8) $23 d-12=51 d+20$
9) $4 \mathrm{k}-23=-5(7 \mathrm{k}-11)$

Determine whether the solution given for the equation is correct. If the given solution is not correct, solve to find the correct solution.
10) Solution: $p=-9$
11) Solution: $a=\frac{17}{3}$
12) Solution: $n=13$
Equation: $8 p=45+13 p$
Equation: $26-6 a=-42+18 a$
Equation: $17 n-90=62 n$

Solve. Give the exact value of the variable (Leave as a fraction in simplest form or as a whole number. NO DECIMALS)
13) $-54+9 h=21-5 h$
14) $3(13 x+12)-60=39 x+106$
15) $25-8 y=-85+2 y$
16) $18+2 x=6 x+2$
17) $-10-\mathrm{k}=-14+2 \mathrm{k}$
18) $3 y-7=17+7 y$
19) $-6 z=14-\mathrm{z}$
20) $12-6+7 r=2 r+5 r-36$
21) $-5 \mathrm{c}-7=-3 \mathrm{c}-37$
22) $\frac{7 n+(-5)}{-3}=11$
23) $-4(2-3 x)=7-2(x-3)$
24) $8 \mathrm{k}-2 \mathrm{k}+3=6 \mathrm{k}-3+6$

