$\qquad$ Period

## Solve each equation.

1) $\frac{x}{4}-8=-10$
2) $2(2+x)=-30$
3) $-3 a+1=-2$
4) $180=-10(a-4)$
5) $-5=5(x+4)$
6) $-6(x+9)=36$
7) $\frac{1+b}{2}=-5$
8) $14=\frac{b}{2}+7$
9) $-2(n-6)=-8$
10) $3+\frac{x}{3}=1$
11) $5 m+2 m=5 m+12$
12) $6-5 x=8 x+6$
13) $6 v+8+7=5+v+7 v$
14) $8 n-7=-4+8 n-3$
15) $-5 a-5 a=-16-2 a$
16) $8 m-1=3+8 m$
17) $-11-6 x=x+1-4 x$
18) $7+3 a=1+3 a$
19) $-5 x+8=8-5 x$
20) $-6(r-1)=8-4 r$
21) $-4 n+35=-5 n-8(n-1)$
22) $-32+2 m=8(-4-8 m)$
23) $4-3 x=-8-3(x-4)$
24) $36-6 n=-(n-6)$
25) $-7(1+x)=-7 x-4$
26) $4(4 m-6)=30-2 m$
27) $22+8 p=-6(-4 p-1)$
28) $6 x+18=8(x+1)$
29) $-8 x-30=2(1-6 x)$
30) $-(4 r+1)=5(-2 r+7)$
$\qquad$
Variable on Both Sides Word Problems HW:
1. Twelve less than the quotient of a number and 7 is -2 . Find the number.
2. The product of a number and 9 , increased by 4 , is 58 . Find the number.
3. Nine more than four times a number is the same as one less than twice the number. Find the number.
4. Eighty, decreased by three times a number, is the same as five times the number, increased by eight. Find the number.
5. Eight less than 7 times a number is the same as 4 more than 3 times the number. Find the number.
6. Four more than 6 times a number is the same as 9 times the number increased by 10 . Find the number.
7. Twenty-eight decreased by 6 times a number is the same as the number. Find the number.
8. Two more than a number is the same as 16 decreased by 6 times the number. Find the number.
