1) $21 y=56+7 y$
2) $7=\frac{n}{2}-1$
3) $360+36 z=30 z$
4) $\frac{3}{4} w+13=7$
5) $2 c-(c-8)=46-c$
6) $\frac{3-x}{5}=6$
7) $5(x+1)-3(x+1)=14$
8) $5(y+2)=6+3(2 y-1)$
9) $14 \mathrm{n}-11 \mathrm{n}+15=0$
10) $-7-4(2 x-1)=21$
11) $|x|+8=12$

Questions 13-15. Define a variable, write an equation, and solve for each.
13) Find three consecutive integers whose sum is -66 .
14) Find four consecutive odd integers if the sum is 48 .
15) Find four consecutive even integers if twice the largest is 20 less than the smallest.

Questions 16-19. Solve for the indicated variable.
16) $y=a x-b$ for $x$
17) $P V=n R T$ for $R$
18) $\frac{x-y}{3}=5$ for $y$

Questions 19-24. Solve the inequality. Graph your solution on the given line.
19. $n-2 \geq 3$

20. $2+\frac{x}{-3}<5$

21. $2 x-3<x+5$

22. $5(2-t)>4(3-t)$

23. $-3<2 x+1 \leq 5$

24. $-5 x>20$ or $10+\frac{x}{2}>15$


Questions 25-27, solve each equation.
25. $|x|+4=8$
26. $-2|x|=-14$
27. $|2 x-6|=8$

Question 28-30, solve and graph each inequality.
28. $|5 x-2| \geq 8$
29. $\left|\frac{x}{2}-1\right|<3$
30. $-2|2-3 x|>16$


