Chapter 9 PreTest / Review
Name $\qquad$
Period $\qquad$
Use backtracking to find the solution of each equation.
1.) $4(3 \mathrm{x}-16)=32$

3.) Use guess-check-and-improve to solve $3 b+4=4 b-2$.
4.) Consider the balance puzzle

a. Write an equation to fit the puzzle. Let $x$ represent the number $o f$ blocks in each bag.

b. Use the drawing to find the value of $x$.

$$
b=5
$$

$$
\begin{aligned}
& \frac{102}{3} \\
& 5+3 n=2 n-16 \frac{8+n=-51}{\sin , ~} \frac{n=-21}{n=-21}
\end{aligned}
$$

$$
\begin{aligned}
& =2(s+s+2 s)=178 \quad \frac{4 s+50=178}{\frac{4}{5}} \\
& 3 \\
& \begin{array}{l}
\text { 11.) Candice had } 4 \text { bags of marbles. The second bag has } 2 \text { more than the first. The third has } \\
\text { twice as many as the first and the fourth bag contains six times as many as the firs:. If she } \\
\text { has a total of } 62 \text { marbles, how many marbles are in each bag. }
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& x^{2} \\
& \text { i: } \frac{6}{2 m}=\frac{8}{62}: 12 \\
& \begin{array}{l}
10 m+2=62 \\
\frac{10 m}{10}=\frac{60}{10} m=6
\end{array}
\end{aligned}
$$

Simplify each expression as much as passible


Solve and graph.
$\qquad$

$$
\frac{+646}{\frac{18554}{3}-\frac{24}{39}}
$$

$6 \leq c$ or

$$
c \geq 6
$$

Write each inequality.


