## Chapter 1 Practice Test

## NANE

$\qquad$ DATE $\qquad$

1. The equation $3 x-4=11$ is solved as shown. Describe the inverse operations used in each step.

$$
3 x-4=11
$$

Step 1: $3 x-4+4=11+4$

$$
\begin{aligned}
3 x & =15 \\
\frac{3 x}{3} & =\frac{15}{3} \\
x & =5
\end{aligned}
$$

Step 2:

Solve each equation.
2. $2 x-7=19$
3. $\frac{2}{3} x-4=1 \frac{1}{4}$
4. Determine if there is one solution, no solution, or an infinite number of solutions.
$2(3 x+4)-(x-8)=3(4 x+2)-7 x+10$
5. Monica bought 3 types of fruit for a fruit salad. She paid twice as much for blueberries as for oranges, and $\$ 1.50$ less for strawberries than for blueberries.
a. Define a variable and write algebraic expressions to represent the amount she spent on each type of fruit.
$\qquad$
b. If the total cost was $\$ 12.25$, how much did Monica spend on each type of fruit?

Solve and check each equation.
6. $\frac{6(2 x-1)}{5}=-18$
7. $\frac{-2(5 x+4)}{3}=-3(3 x+2)-\frac{7}{3}$

