Date $\qquad$ Solve Equations: More Practice
Solve. SHOW YOUR WORK!!!

1. $x-3=9$

$$
x-8=15
$$

2. $-6.1 x=-22.57$

$$
-5.3 x=22.26
$$

3. $-55=20 x-12$

$$
-75=40 x+11
$$

6. $18=3(2 x+5)-7 x$

$$
-36=6(3 x+7)-5 x
$$

7. $9 x+11=7 x+7$

$$
5 x+13=3 x+7
$$

8. $4.4(2.5 x+10)=9 x+19-3 x$

$$
2.4(2.5 x+12.5)=11 x+30-5 x
$$

9. $4(5 a+3)=3(4 a-2)$

$$
5(4 b+5)=6(2 b-7)
$$

10. $3(n-2)=3 n-2$

$$
3(n-2)=3 n-6
$$

11. Solve for y : $3 x+4 y=24$

Solve for y : $\quad 5 x-3 y=30$
12. Solve for $r$. $\quad e=5 \mathrm{mr}$

Solve for $b . \quad a=5 b c$
13. Frank washed $c$ cars for $\$ 15$ each and got $\$ 35$ in tips for doing such a good job. He earned $\$ 170$ altogether. WRITE AN EQUATION that could be used to find $c$, the number of cars he washed.

Mary cleaned $w$ windows for $\$ 6$ each and got $\$ 25$ in tips for doing such a good job. She received \$187 altogether. WRITE AN EQUATION that could be used to find $w$, the number of windows she cleaned.
14. Find the mistake in the following solution. Circle the line that is wrong!

$$
\begin{gathered}
8-3(2 n-4)=-10 \\
8-6 n-12=-10 \\
-6 n-4=-10 \\
-6 n=-6 \\
n=1
\end{gathered}
$$

Find the mistake in the following solution.
Circle the line that is wrong!

$$
\begin{gathered}
12-5(2 n-4)=-15 \\
12-10 n+20=-15 \\
10 n+32=-15 \\
10 n=-47 \\
n=-4.7
\end{gathered}
$$

15. If $x=5$, solve the following equation for $y$.

$$
5 x-3 y=40
$$

(15 Continued)
If $y=2$, solve the following equation for $x$.

$$
4 x-3 y=34
$$

16. Solve: $8(x-5)=2 x-25+6 x-15$

Solve: $7(x-2)=2 x-2+5 x+10$
17. The length of a rectangle is $(x+5)$ and the width is $(3 x-4)$. If the perimeter of the rectangle is 50 cm., find the length of the rectangles sides.

HINT: Draw it out, label it, solve for $x$. THEN find the length of the sides!

17 (continued)
The length of a rectangle is $(x+8)$ and the width is $(4 x-3)$. If the perimeter of the rectangle is 80 in ., find the length of the rectangles sides.
18. Solve: $0.05 x+4=22-0.25 x$

$$
0.04 x+9=12-0.2 x
$$

19. Humphrey has $\$ 900$ to spend on his vacation. He spends $\$ 85$ each day for his hotel. Write an equation that will find $d$, the number of days, when he has exactly $\$ 475$ left for entertainment on his vacation.

Brandy has $\$ 230$ to buy clothes. She bought a number of shirts that cost $\$ 22$ each and had $\$ 143$ left. Write an equation that could be used to find $s$, the number of shirts she bought.
20. Write and solve an equation:

```
Apples
                                    ... $. }7
                                    Bananas ..... $. }5
```

Braylen wants to buy 6 apples. If he has $\$ 7.00$, how many bananas can he buy?

Marianne picked out 4 ripe bananas. How many apples can she but if she has $\$ 5.00$ ?

