$\qquad$

## Solving One-Step EQUATIONS - Addition/Subtraction

- An equation is a math sentence that DOES contain an $\qquad$ .
- The goal of solving an equation is to find the value of the variable.
o We do this by isolating the variable on one side of the equation using Inverse Operations!
- Inverse operations "undo" each other!

Inverse of addition?
Inverse of subtraction?


Inverse of multiplication?
Inverse of division?

## Examples:

John has $x$ apples. If he adds 5 apples to his pile, he will have 8 apples.
What is the value of $x$ ?

Write an equation: $x+5=8$
$-5=-5$
$x=3$
Answer: John had 3 apples before he added to his pile.

Check:
$3+5=8$
Check:
$135-90=45$
Answer: Maddie had $\$ 135$ before she bought the purse.
Maddie has $x$ dollars. After spending $\$ 90$ on a purse, she will have $\$ 45$. What is the value of $x$ ?

Write an equation: $x-90=45$
$+90=+90$
$x=135$

## Let's Practice!

1. $x+2=10$


$$
x+0=\square
$$

Check:
2. $y-8=15$


$$
y-0=\square
$$

Check:
3. $a+9=2$


$$
a+0=\square
$$

Check:

## Math 6 Practice (8.1)

## Solve

1) $x+7=18$
2) $a-15=22$
3) $83=y-17$
4) $c-3=6$
5) $x+8=18$
6) $y-5=4$
7) $6+z=10$
8) $p-5=15$
9) $4+m=12$
10) $g+44=50$
11) $x-9=2$
12) $a+10=17$
13) $y-4=19$
14) $b-17=12$
15) $3=d+2$
16) $i+13=27$
17) $y-4=6$
18) $x+5=8$
19) $x-4=9$
20) $24=n+13$
21) $d-9=11$
$\qquad$

## Solving One-Step Equations: Addition and Subtraction

You must show your work to get credit! Check your answer.

1) $y+6=20$
2) $x-10=12$
3) $12+z=15$
4) $2+n=16$
5) $a+4=14$
6) $m-5=10$
7) $4+b=30$
8) $10+c=25$
9) $x-60=20$
10) $g-16=4$
11) $x-15=20$
12) $w+14=18$
13) $r-18=27$
14) $13+k=25$
15) $f-16=34$
$\qquad$

## 4-2 Practice: Skills

Solving Addition and Subtraction Equations
Solve each equation. Check your solution.

1. $x+2=8$
2. $y+7=9$
3. $a+5=12$
4. $16=n+6$
5. $q+10=22$
6. $m+9=17$
7. $b-4=9$
8. $8=c-4$
9. $11=t-7$
10. $d-10=8$
11. $x-11=9$
12. $2=z-14$
13. $72=24+w$
14. $86+y=99$
15. $6+y=-8$
16. $-5=m+11$
17. $n+3.5=6.7$
18. $x+1.6=0.8$
19. $98=t-18$
20. $12=g-56$
21. $x-18=-2$
22. $p-11=-5$
23. $a-1.5=4.2$
24. $7.4=n-2.6$
