Sample Problems

# One- and Two-Step Equations

* $m+12=10$
* $-2=g-9$
* $\frac{a}{9}=-$4
* $\frac{2}{3}a=10$
* $-\frac{1}{2}m=-9$
* $6c+8=50$
* $7-3x=34$
* $11=\frac{x}{-5}+8$

## **Multi-Step Equations**

* $9x+1-7x-5=-20$
* $4m-5\left(3m+10\right)=126$
* $-3\left(k-8\right)-\left(k+5\right)=23$
* $x-3\left(2x-7\right)=76$
* $2\left(5x+3\right)-4\left(7x+1\right)=-88$

### **Absolute Value**

* $\left|x\right|=2$
* $\left|5z\right|=40$
* $\left|d+1\right|=8$
* $\left|-2v-5\right|=17$
* $\left|x\right|+2=12$
* $6\left|x\right|=24$
* $-2\left|z+3\right|=-14$
* $5\left|4r-4\right|-9=31$

#### **Inequalities**

* $3x+2<-4$
* $3+\frac{x}{7}\geq 1$
* $-\frac{1}{3}x+4>11$
* $4\left(x+3\right)>-24$
* $-8\left(x-1\right)-x\leq -28$
* $x-3\left(x+2\right)>4$
* $7x-2\left(x-4\right)\leq -2$
* $-39\leq 5x-9\leq 16$