**Equations & Inequalities Worksheet**

**Solve the following equations for *x*. Show all your work.**

1. 2*x* = 10
2. *x* + 9 = 21
3. 8 + *x* = 30
4. 30 = 5*x*
5. 14 = *x* – 7
6. (-3)*x* = 30
7. *x* – 5 = 32
8. $\frac{x}{-2}=12$

**Solve the following inequalities for *x*. Show all your work.**

1. 2 + *x* > 4
2. $\frac{x}{3}<9$
3. $\frac{x}{-2}\geq 5$
4. *x* + 2 < -3
5. 15 < *x* + 2
6. 4*x* ≤ 24
7. -6*x* > 18
8. *x* – 7 < 7