**Entrance Ticket (Key)**

**Simplify the following expressions.**

1. 6*x* – 3*x* 3*x*
2. 2*y* + 6 + 3*y* 5*y* + 6
3. 7 + 4*x* – 3 – *x* 3*x* + 4
4. *y* + 13 – 6*y* −5*y* + 13
5. Translate the phrase into an inequality:

*all real numbers less than −3 x* < −3

1. Graph the inequality you wrote for #5 on a number line.

−3

0

**Solve the following for *x*. Check your answers.**

1. 3*x* = 6 *x* = 3
2. 2*x* > 14 *x* > 7
3. 14*x* ≤ −28 *x* ≤ −2
4. −2*x* = 26 *x* = −13