

Math 6 - Unit 4: Equations & Inequalities

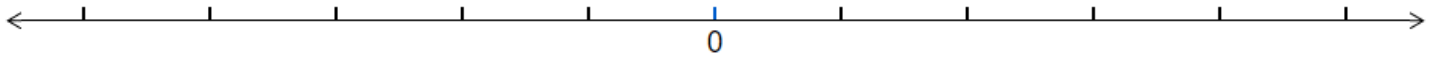
Homework – Inequalities Practice

Name: _____

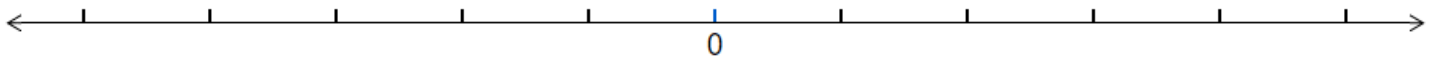
Class Period: 1 2 3 4 Date: _____

Write an inequality to model each situation and then graph the inequality on the number line.

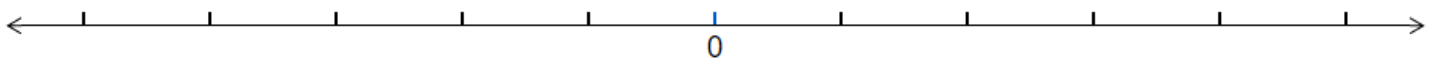
1) There are **at least** 30 students in Mrs. Katz class. **Inequality** _____



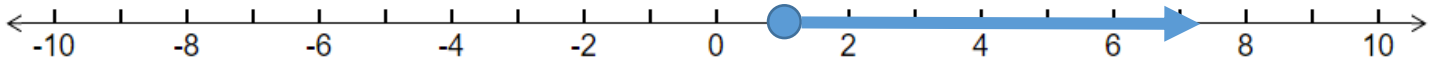
2) **More than** 15,000 people like Justin Bieber. **Inequality** _____



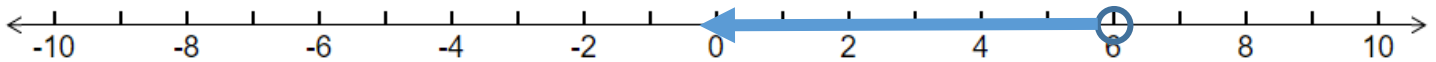
3) You must be **at most** 52 inches to ride *Boulder Bumpers*. **Inequality** _____



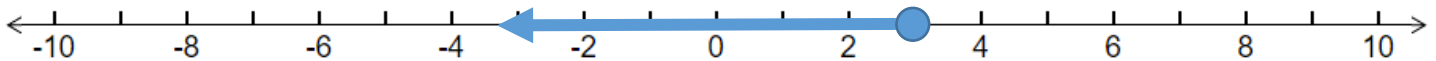
4) What inequality is graphed on the number line? **Inequality** _____



5) What inequality is graphed on the number line? **Inequality** _____



6) What inequality is graphed on the number line? **Inequality** _____



Solve the following equations and show all of your work:

7) $x - \frac{7}{8} = \frac{2}{8}$

8) $x + 2345 = 3429$

9) $13x = 182$

10) $\frac{x}{1.2} = 6$

Math 6 - Unit 4: Equations & Inequalities

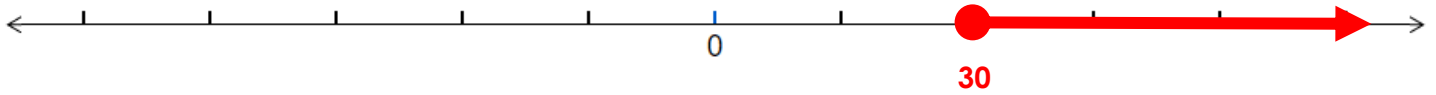
Homework - Inequalities Practice **ANSWER KEY**

Name: _____

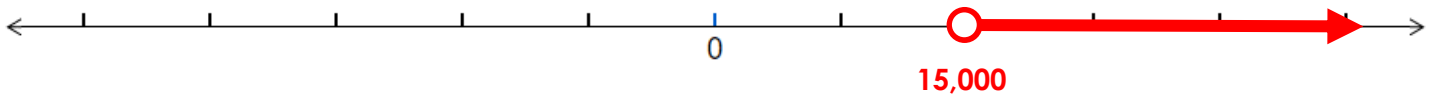
Class Period: 1 2 3 4 Date: _____

Write an inequality to model each situation and then graph the inequality on the number line.

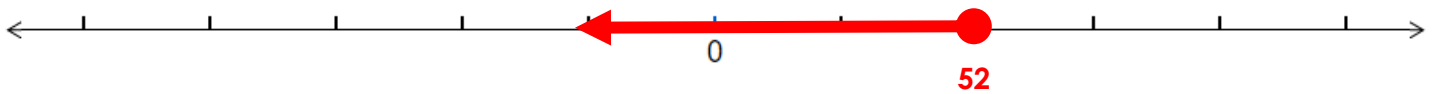
1) There are **at least** 30 students in Mrs. Katz class. **Inequality** $x \geq 30$



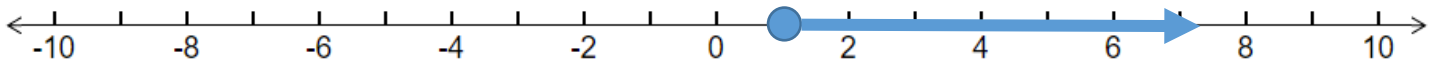
2) **More than** 15,000 people like Justin Bieber. **Inequality** $x > 15,000$



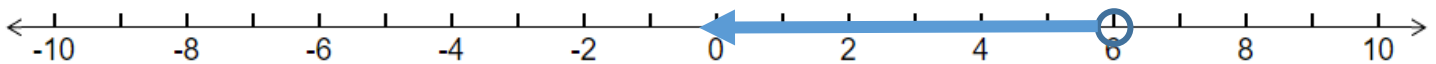
3) You must be **at most** 52 inches to ride *Boulder Bumpers*. **Inequality** $x \leq 52$



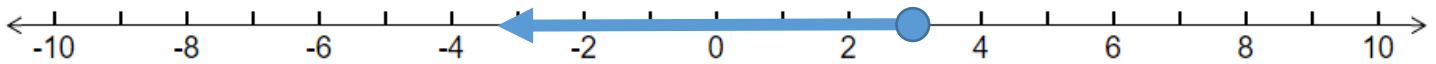
4) What inequality is graphed on the number line? **Inequality** $x \geq 1$



5) What inequality is graphed on the number line? **Inequality** $x < 6$



6) What inequality is graphed on the number line? **Inequality** $x \leq 3$



Solve the following equations and show all of your work:

7) $x - \frac{7}{8} = \frac{2}{8}$ **$x = \frac{9}{8}$ or $1\frac{1}{8}$**

8) $x + 2345 = 3429$ **$x = 1084$**

9) $13x = 182$ **$x = 14$**

10) $\frac{x}{1.2} = 6$ **$x = 7.2$**