**Math 6 - Unit 4: Equations & Inequalities** Name:

*Inequalities Practice*

Class Period: 1 2 3 4 Date:

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

1) Robert will spend ***more than*** 10 hours snapchatting with his girlfriend.

**Inequality \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**



2) Your little sister spent at least 20 minutes pushing her baby doll in its stroller.

**Inequality \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**



3) The temperature is supposed to be below 40⁰ Friday night. **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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**



7) What inequality is graphed on the number line? **Inequality \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**



Use substitution to determine whether the value given for the variable is a solution to the given inequality. Write TRUE or FALSE and Show all work to get credit.

8) *if m* = 11 9) *if a* = 153

10) *if r* = 16 11) *if h* = 4

12) *if h* = 5 13) *if z* = 5

14) *if v* = 12 15) *if n* = 57

16) *if m* = 17 17) *if u* = 20

18) *if a* = 14 19) *if z* = 13

20) *if j* = 13 21) *if r* = 3

22) *if h* = 11 23) *if k* = 3

24) *if d* = 6 25) *if w* = 78

26) *if g = 19* 27) *if r* = 12

**Math 6 - Unit 4: Equations & Inequalities** Name:

*Inequalities Practice* ***Answer Key***

Class Period: 1 2 3 4 Date:

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

1) Robert will spend ***more than*** 10 hours snapchatting with his girlfriend.

**Inequality x > 10**



2) Your little sister spent at least 20 minutes pushing her baby doll in its stroller.

**Inequality x ≥ 20**



3) The temperature is supposed to be below 40⁰ Friday night. **Inequality x < 40**



4) What inequality is graphed on the number line? **Inequality x ≥ 2**



5) What inequality is graphed on the number line? **Inequality x ≠ 7**



6) What inequality is graphed on the number line? **Inequality x > 26**



7) What inequality is graphed on the number line? **Inequality x ≤ 45**



Use substitution to determine whether the value given for the variable is a solution to the given inequality. Write TRUE or FALSE and Show all work to get credit.

8) *if m* = 11 **TRUE** 9) *if a* = 153 **TRUE**

10) *if r* = 16 **TRUE** 11) *if h* = 4 **TRUE**

12) *if h* = 5 **TRUE** 13) *if z* = 5 **FALSE**

14) *if v* = 12 **FALSE** 15) *if n* = 57 **TRUE**

16) *if m* = 17 **FALSE** 17) *if u* = 20 **TRUE**

18) *if a* = 14 **FALSE** 19) *if z* = 13 **FALSE**

20) *if j* = 13 **FALSE** 21) *if r* = 3 **TRUE**

22) *if h* = 11 **FALSE** 23) *if k* = 3 **FALSE**

24) *if d* = 6 **FALSE** 25) *if w* = 78 **FALSE**

26) *if g = 19* **FALSE** 27) *if r* = 12 **FALSE**