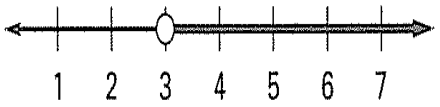
Name_____Date_____Hour_____

Worksheet 6.1 & 6.2 – Solving One-Step Linear Inequalities and Solving Multi-Step Linear Inequalities – Textbook pages 334-345

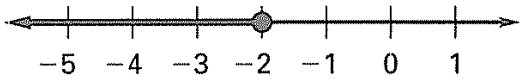
LEVEL 1

Write an inequality that describes the graph shown below.

1)



2)



Sketch a graph of the inequalities below.

3) $x < -1$ _____

4) $x \geq 5$ _____

LEVEL 2

Solve the inequalities and graph their solutions. Show your work.

5) $x - 2 \leq 5$

6) $3x > 6$

7) $-8x \leq -24$

_____ _____ _____

8) $\frac{x}{5} < -4$

9) $-6 \geq \frac{-x}{3}$

_____ _____

LEVEL 3

Solve the following inequalities. Show your work.

10) $7x - 30 < 19$

11) $3x - 1 > 1$

12) $2x + 3 \leq 6x - 1$

13) $2x - 14 > 4x + 4$ 14) $-12 \geq \frac{3}{5}x - 18$ 15) $7x - 2 \leq -3(x - 2)$

LEVEL 4

16)

Basketball Tom has scored 181 points so far this basketball season. He needs to score 207 points to tie the school record for most points scored in a season. Let x represent the number of points Tom needs to score to tie or beat the record. Write an inequality for x. What is the least number of points Tom has to score? Graph the inequality.

a) Inequality: _____

b) Least number of points Tom needs to score: _____

c) Graph: _____

17)

Water Park A water park charges $12 for admission and $5 to park your vehicle. Write an inequality that represents the possible number of people that could go for $50. Solve the inequality. What is the maximum number of people that could go?

a) Inequality: _____ b) Maximum # of people: _____