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HW 4.1 in Inequalities Unit

Date_____ Period__

For all questions, assume we are talking about all the numbers you know about, not just the integers.

Draw a graph for each inequality. Make your own number line with at least 4 labeled points.

1)
$$x \le -5$$

2)
$$p > -3$$

Write an inequality for each graph.



5)
$$2x + 5 < 10$$

6)
$$\frac{x}{3} - 2 < 0$$

7)
$$3p + 1 < 4p - 6$$

8)
$$\frac{2n+1}{5} < 5$$

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10) Which of the following #s are in the solutions set for the inequality statement "n is at least 10 but not more than 13?". Circle those that are in the solution set.

(Stuck? For each # ask yourself: does this # make the statement "n is at least 10 but not more than 13" true? You should notice patterns that will allow you to eliminate many at a time).

11) Video 4.1 mentioned a connection between inequalities and the term "variable", please explain it in your own words. (You may explain generally or in terms of a specific inequality statement of your choice).