Solving Inequalities

ALGEBRA	Name:
Review	Period: #:

RULE - MEMORIZE THIS!!!!

If you MULTIPLY or DIVIDE <u>BOTH SIDES</u> of an inequality by a NEGATIVE number, you must REVERSE THE DIRECTION OF THE INEQUALITY!!!!!!

Solve each inequality and graph on the number line. Show all work!

1.
$$m + 7 < 15$$

2.
$$5m \le 20$$

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3.
$$x-2 \ge 2.5$$

4.
$$-10x < 20$$

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5.
$$5 < b + 10$$

$$6. \ \frac{x}{3} \le 3$$

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7.
$$x - 25 \le -20$$

8.
$$4 < \frac{x}{-2}$$

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9.
$$-7x \le 49$$

10.
$$b + 4 > -2$$

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$$11. \quad \frac{x}{-5} \ge -2$$

12.
$$\frac{x}{7} \ge -1$$

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13.
$$c - 10 < -5$$

14.
$$-7m \ge -28$$