



PRACTICE



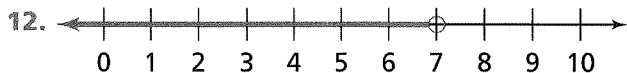
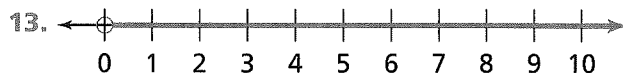
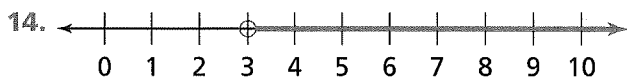
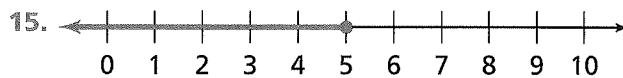
TUTORIAL

Name: _____

Practice & Problem Solving

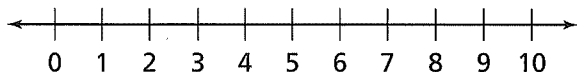
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In 12–15, write the inequality that each graph represents.

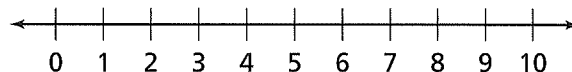
y b x t

In 16–19, graph each inequality on a number line.

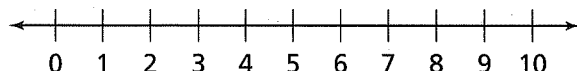
16. $h \geq 9$



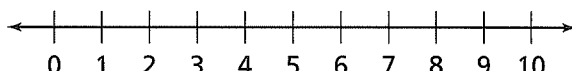
17. $p < 3$



18. $t \leq 6$



19. $s > 1$



In 20–27, name three solutions of each inequality.

20. $x > 10.5$

21. $r < 19$

22. $y \geq 200$

23. $m \leq 82$

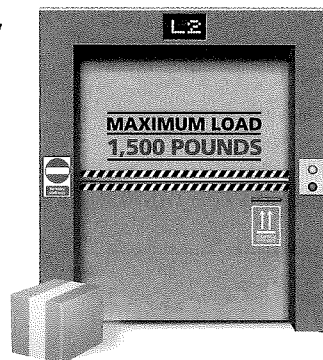
24. $x \geq 12$

25. $q \leq 3.5$

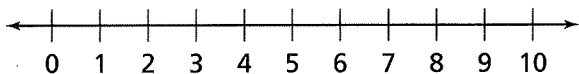
26. $v > 35$

27. $m < 2.5$

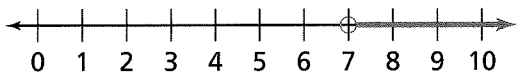
28. The inequality $w \leq 1,500$ describes the maximum weight in pounds, w , allowed by law in a freight elevator. Is a total weight of either 1,505 pounds or 1,600 pounds allowed in a freight elevator? Explain.



29. **Reasoning** Graph the inequalities $x > 2$ and $x < 2$ on the same number line. What value, if any, is not a solution of either inequality? Explain.



31. The number line below represents the solutions of the inequality $x > 7$. Is 7.1 a solution? Is 7.01 a solution? Explain.



33. **Higher Order Thinking** Francine received a gift card to buy cell phone apps. She says that the card's value is enough to buy any of the apps shown at the right. Let v be the dollar value of the gift card. Write an inequality that best describes the value of the gift card.

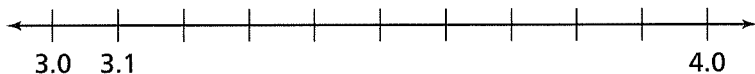


34. The maximum load on a small plane is 400 pounds. Let w represent the weight on the plane. Write an inequality to describe the allowable weight on the plane.

35. Jillian is thinking of a whole number that is greater than 21. What numbers, if any, make the inequality $n > 21$ true for $n = 0, 1, 2, 3, 4, \dots$?

Assessment Practice

36. Tania started a graph to show the inequality $y < 3.7$. Finish labeling the number line and draw the graph.



37. Bill started a graph to show the inequality $x \leq 25$. Finish labeling the number line and draw the graph.

