Lesson 6 Homework Practice

Inequalities

Write an inequality for each sentence.

1. More than 3400 people attended the flea market.

2. Her earnings at $11 per hour were no more than $121.

3. The 10-km race time of 84 minutes was at least twice as long as the winner's time.

4. A savings account increased by $70 is now more than $400.

For the given value, state whether each inequality is *true* or *false*.
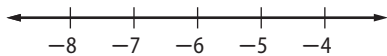
5. $9 - x > 3$, $x = 6.5$

6. $9.5 + n < 19$, $n = 10$

7. $3k < 27\frac{1}{2}$, $k = 8$

8. $21 \leq 4c$, $c = 5.2$

9. $\frac{x}{4} \leq 8$, $x = 32$

10. $\frac{9}{c} > 2$, $c = 3\frac{1}{2}$

Graph each inequality on a number line.
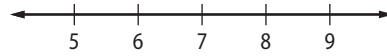
11. $a < -2$
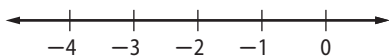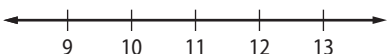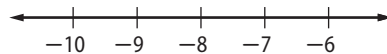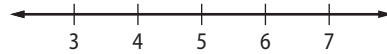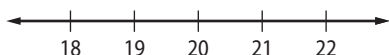

12. $t > -6$

13. $d \geq 7$

14. $b \geq 11$
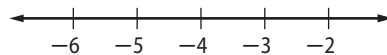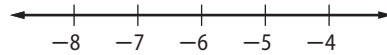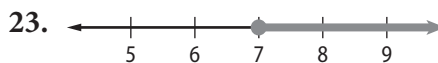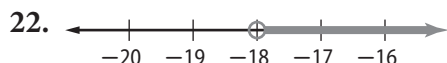

15. $x \leq -8$

16. $w > 5$

17. $n < 20$

18. $b \leq -4$

19. $a \geq -6$

Write an inequality for each graph.

20.

21.

22.

23.
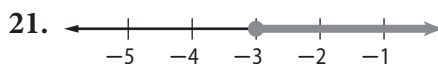
24. The average time a human being can hold their breath underwater is 1 minute. A hippo can hold its breath underwater for at least 5 times as long as a human. Write an inequality that represents how long a hippo can hold its breath underwater.

25. In the first hour of a charity auction, $4800 was raised. This was at most $1200 more than was raised in the second hour of the auction. Write an inequality that represents the amount raised in the second hour.

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