

12 BECAUSE 16 DIVIDED BY 12 = 12

18. **Identify Structure** Write two different inequalities that have the solution $y > 6$. One inequality should be solved using multiplication properties, and the other should be solved using division properties.

19. **Persevere with Problems** You score 15, 16, 17, 14, and 19 points out of 20 possible points on five tests. What must you score on the sixth test to have an average of at least 15 points?

12 because $16 - 12 = 4$.

20. **Reason Inductively** The inequalities $3x > 2$ and $9x > 6$ are equivalent inequalities. Write another inequality that is equivalent to $3x > 2$ and $9x > 6$.

21. **Persevere with Problems** Consider the inequalities $b \geq 4$ and $b \leq 13$.

a. Graph each inequality on the number line.

b. Do the solution sets of the two inequalities overlap? If so, what does this overlapping area represent?

