











**Matching.** Match the verbal inequality statement to the left with the correct inequality to the right. There will be one extra letter not used.

<p>____ 1. A number minus 4 is less than 6.</p> <p>____ 2. The sum of a number and 4 is at least 6.</p> <p>____ 3. 6 less than a number is greater than 4.</p> <p>____ 4. The difference between 6 and a number is greater than or equal to 4.</p> <p>____ 5. Four is no more than six plus a number.</p>	<p>a. <math>N + 4 \geq 6</math></p> <p>b. <math>N - 4 &lt; 6</math></p> <p>c. <math>4 \leq 6 + N</math></p> <p>d. <math>N - 6 &gt; 4</math></p> <p>e. <math>N - 6 &lt; 4</math></p> <p>f. <math>6 - N \geq 4</math></p>
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**p65 Write the original problem. Show all work! Graph the solution on a number line.**

<p>8.</p> 	<p>10.</p> 
<p>11.</p> 	<p>12.</p> 
<p>14.</p> 	<p>15.</p> 
<p>16.</p> 	<p>18.</p> 

19.  	20.  
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Write the verbal model as an inequality. DO NOT SOLVE.

21.	22.	23.	24.
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25. a.  b.	26.
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27.
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30 a. Write an inequality to describe the score that you must earn on your second jump to beat your competitor's score.	30 b.
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31. (Hint: There can be more than one answer.)	32. Write and solve an inequality for the possible values of x.
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**Key:**

1. B
2. A
3. D
4. F
5. C

8. $s \geq 9$	10. $c > 8$		
11. $r < 1$	12. $y \geq -16$		
14. $q \leq 12$	15. $h \geq 8$		
16. $t < -19$	18. $y \geq 6$		
19. $p \leq 17$	20. $z > -9$		
21. $n + 8 > 11; n > 3$	22. $n - 3 \geq -5; n \geq -2$	23. $n - 9 < 4; n < 13$	24. $6 \leq n + 15; n \geq -9$
25. $38 + w \leq 50; w \leq 12$	26. $19.76 + x \geq 25; x \geq 5.24$		
27. The graph is going the wrong direction.			
30a. score greater than 117.4 points		30b. they both are; Both scores are greater than 117.4 points.	
31. A; subtract 3 from each side: D; order of inequality reverses for opposites.		32. $14.2 + 15.5 + x < 51.3; x < 21.6$	