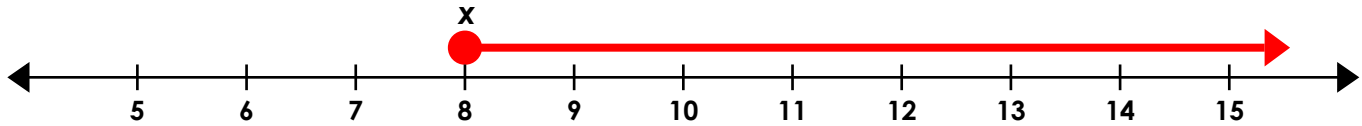


Inequalities

An inequality is a pair of expressions or numbers that are not equal.

When you solve an inequality, you need to show all of the values that make the statement true. One way to do this is by graphing the inequality on a number line.

examples: $x \geq 8$ (x is greater than or equal to 8)



On an inequality graph, an **open circle** is used for **greater than** and **less than**. A **filled circle** is used for **greater than or equal to** and **less than or equal to**.

Write each inequality in words. Then graph each on the number line using a red colored pencil or crayon.

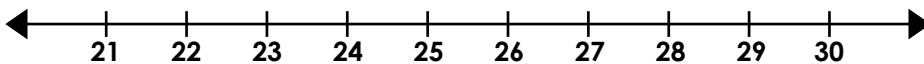


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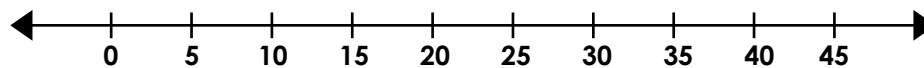
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30 31 32 33 34 35 36 37 38 39 40

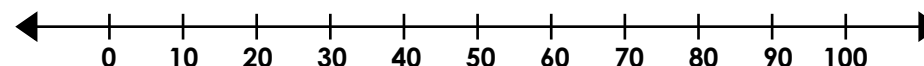
3. $24 > f$ word form: _____



4. $20 < t$ word form: _____

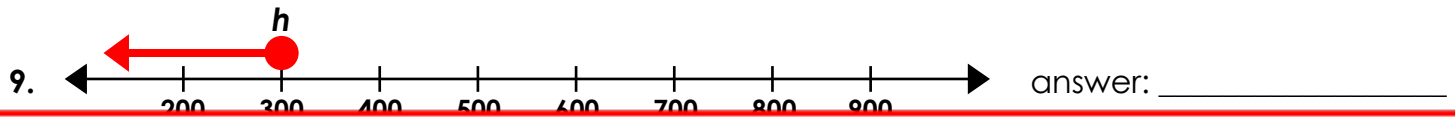
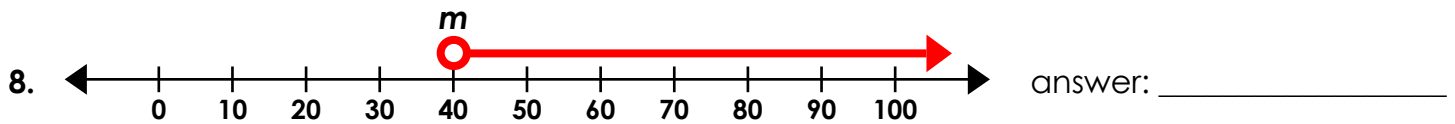
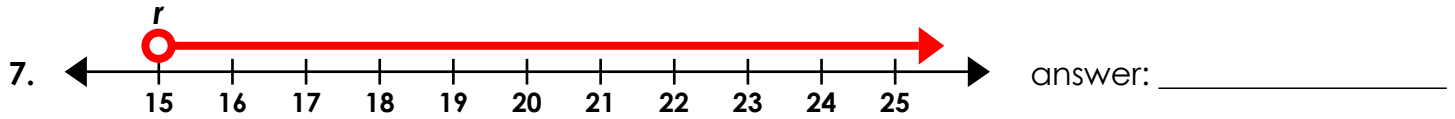
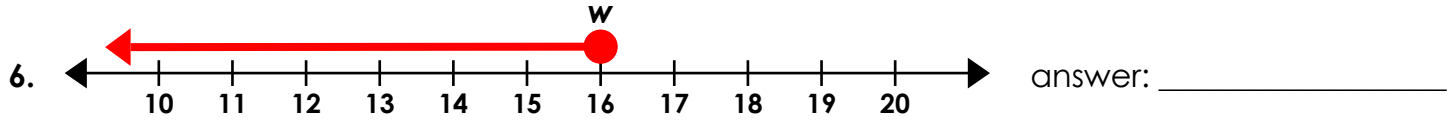


5. $u \geq 30$ word form: _____



Inequalities

Write the inequality shown by each number line.



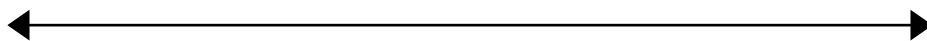
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12. For the inequality $c \geq 76$, Tami says 80 and 100 are both solutions. Is she correct? Explain why or why not.

13. For the inequality $12 > d$, Jarod says 9 and 12 are both solutions. Is he correct? Explain why or why not.

14. Levi spends up to \$15 per week on lunches. Show this inequality on a number line.

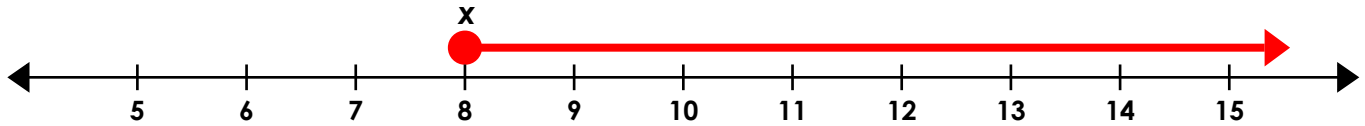


Inequalities

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examples: $x \geq 8$ (x is greater than or equal to 8)



On an inequality graph, an **open circle** is used for **greater than** and **less than**. A **filled circle** is used for **greater than or equal to** and **less than or equal to**.

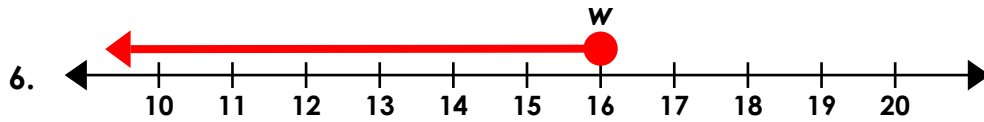


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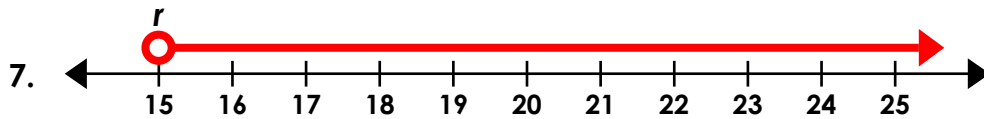
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Inequalities

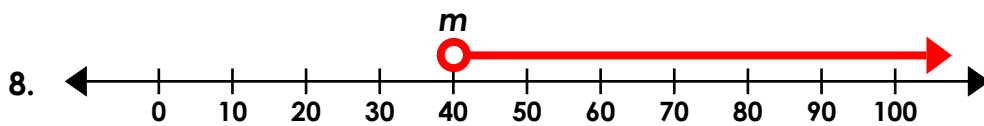
Write the inequality shown by each number line.



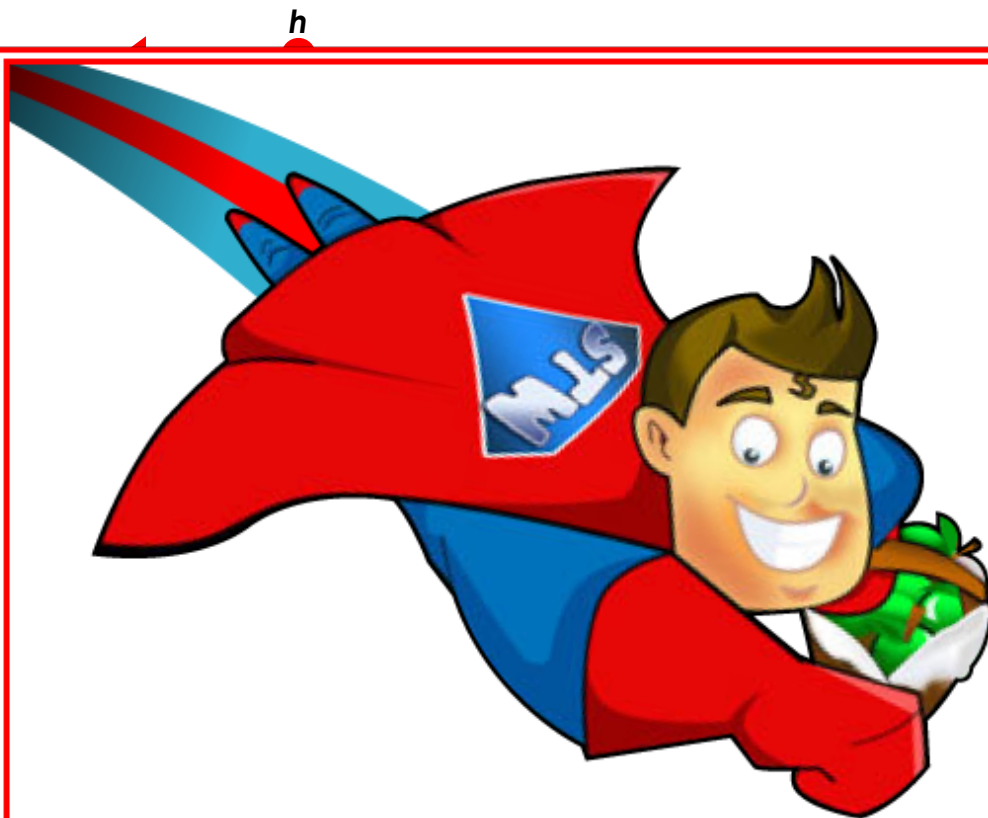
answer: $w \leq 16$ or $16 \geq w$



answer: $r > 15$ or $15 < r$



answer: $m > 40$ or $40 < m$



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