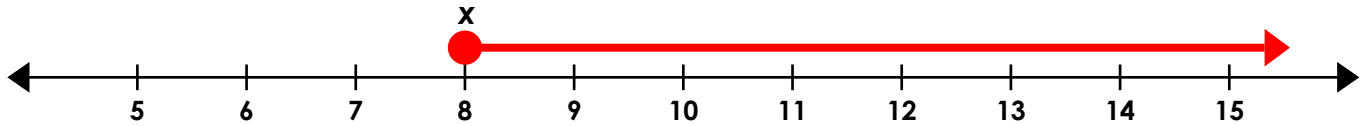


Inequalities

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: $x \geq 2 + 6$ (x is greater than or equal to $2 + 6$)



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.



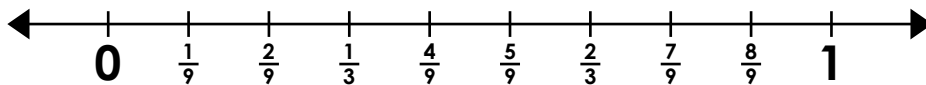
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-0.3 -0.29 -0.28 -0.27 -0.26 -0.25 -0.24 -0.23 -0.22 -0.21 -0.2

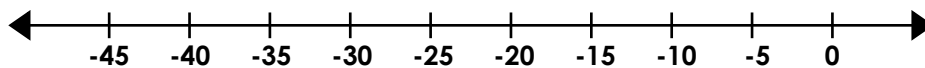
3. $\frac{3}{9} > f$

word form: _____



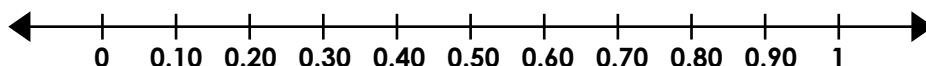
4. $0 - 15 < t$

word form: _____



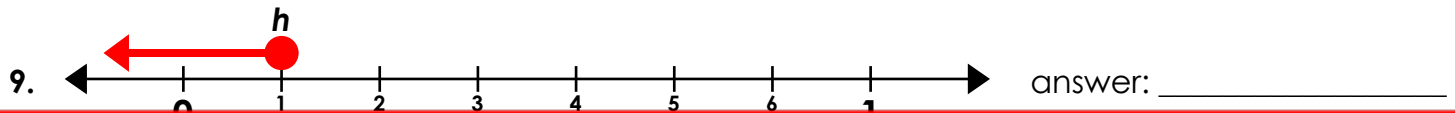
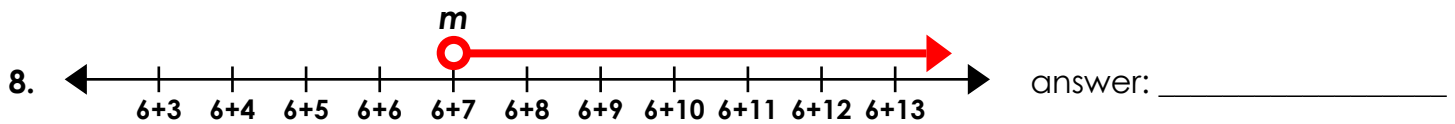
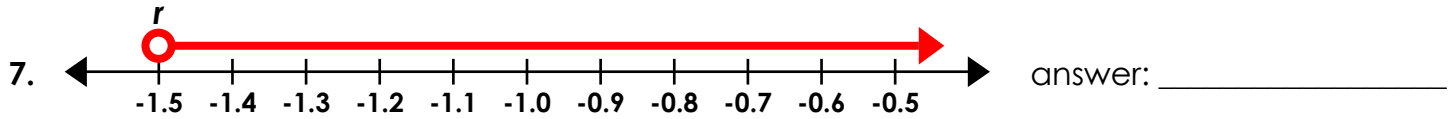
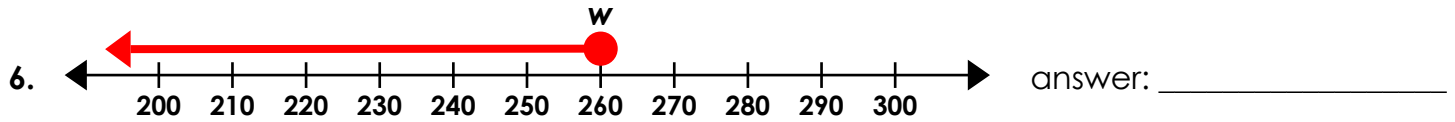
5. $u \geq 30\%$

word form: _____



Inequalities

Write the inequality shown by each number line.



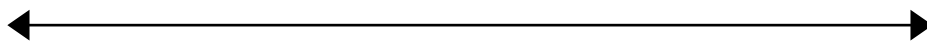
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12. For the inequality $c \geq 0.76$, Tori says 0.8 and 1 are both solutions. Is she correct? Explain why or why not.

13. For the inequality $3+9 > d$, Jaime says 9 and 12 are both solutions. Is he correct? Explain why or why not.

14. Kev charges up to \$15 to mow neighborhood lawns. Show this inequality on a number line.

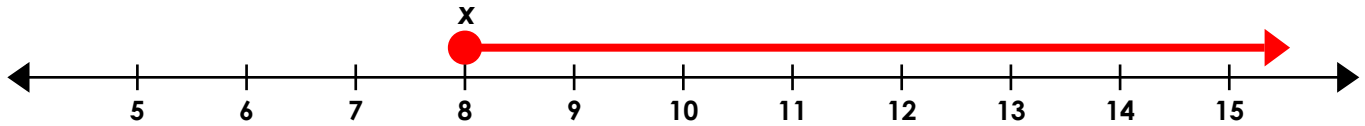


Inequalities

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: $x \geq 2 + 6$ (x is greater than or equal to $2 + 6$)



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**.

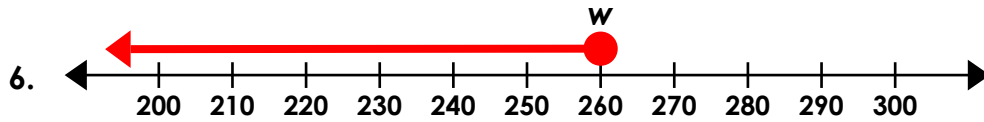


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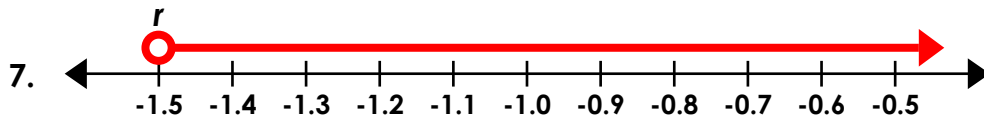
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Inequalities

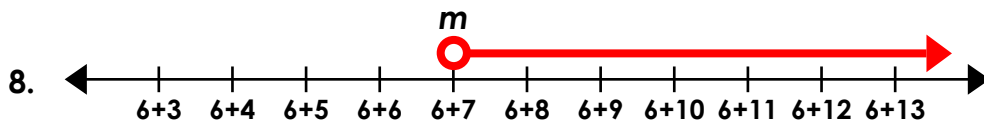
Write the inequality shown by each number line.



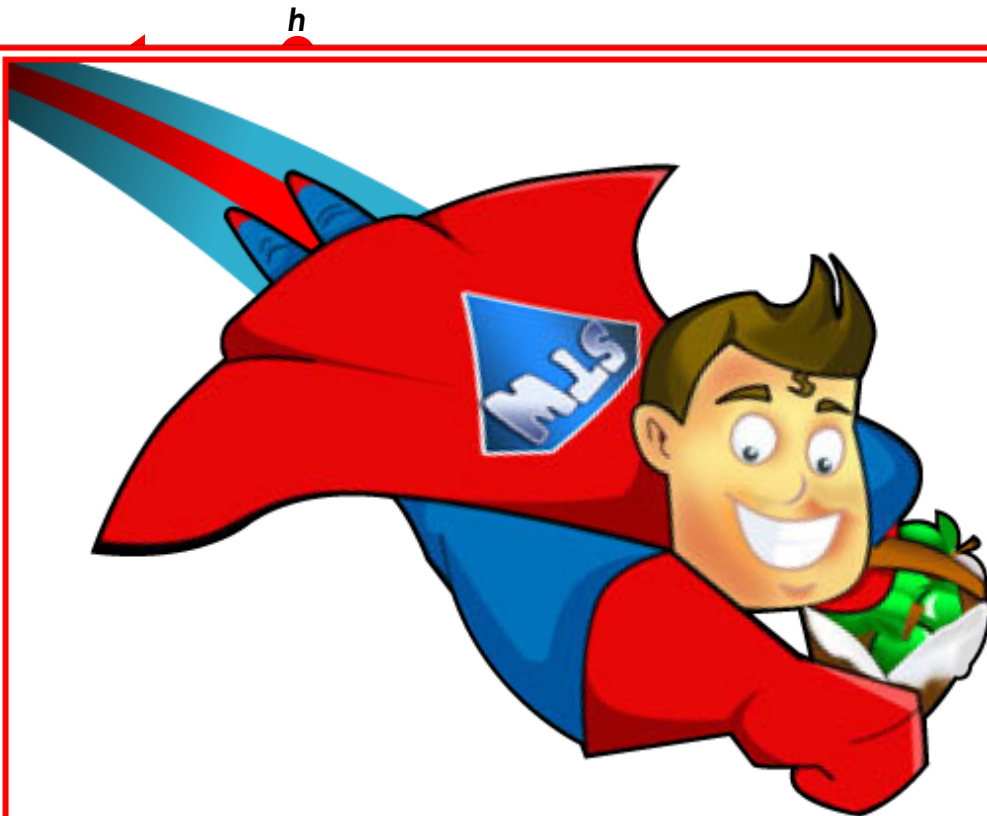
answer: $w \leq 260$ or $260 \geq w$



answer: $r > -1.5$ or $-1.5 < r$



answer: $m > 6+7$ or $6+7 < m$



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