

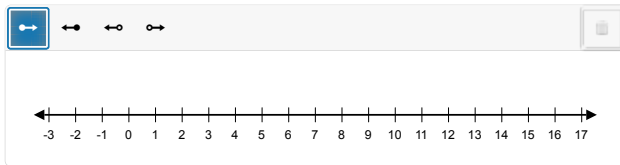
Solving Inequalities Using Addition or Subtraction

1. Solve the inequality.

$$x + 7 \geq 18$$

The solution is .

Graph the solution.



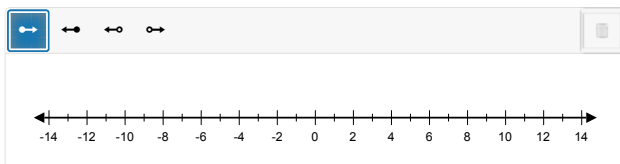
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2. Solve the inequality.

$$a - 2 > 4$$

The solution is .

Graph the solution.



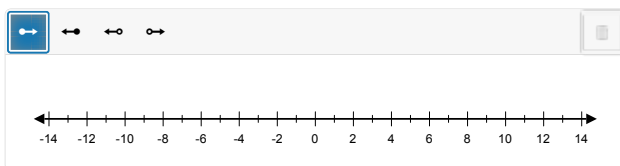
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3. Solve the inequality.

$$3 \leq 7 + g$$

The solution is .

Graph the solution.



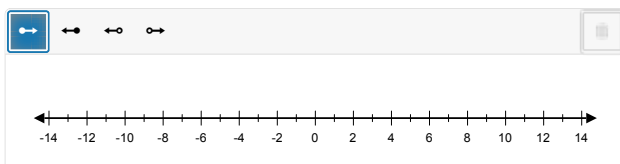
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4. Solve the inequality.

$$8 + k \leq -3$$

The solution is .

Graph the solution.



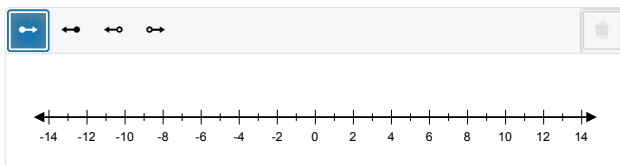
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5. Solve the inequality.

$$-12 < y - 6$$

The solution is .

Graph the solution.



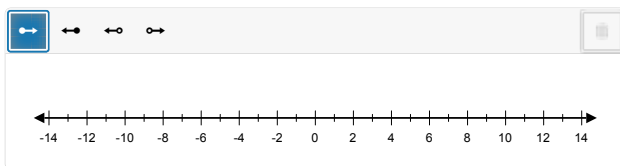
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6. Solve the inequality.

$$n - 4 < 5$$

The solution is .

Graph the solution.



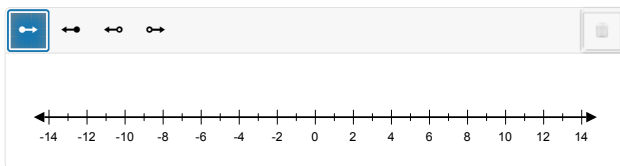
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7. Solve the inequality.

$$l - 5 \leq -7$$

The solution is .

Graph the solution.



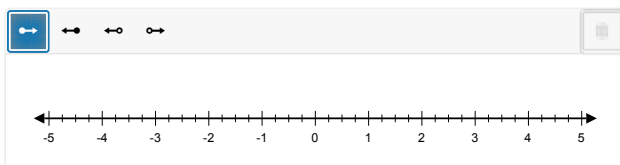
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8. Solve the inequality.

$$p + \frac{1}{4} \geq 2$$

The solution is .

Graph the solution.



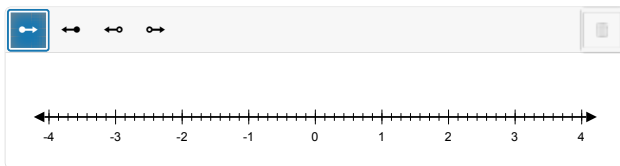
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9. Solve the inequality.

$$\frac{2}{7} > b + \frac{5}{7}$$

The solution is .

Graph the solution.



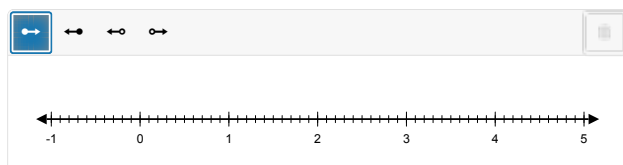
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10. Solve the inequality.

$$z - 4.7 \geq -1.6$$

The solution is .

Graph the solution.



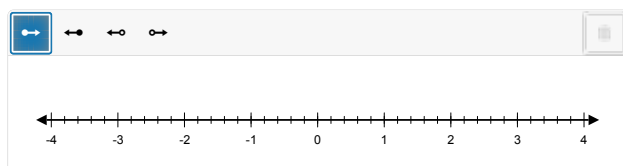
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11. Solve the inequality.

$$-9.1 < d - 6.3$$

The solution is .

Graph the solution.



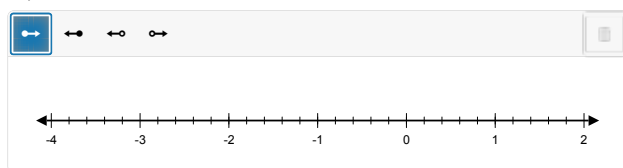
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12. Solve the inequality.

$$\frac{8}{5} > s + \frac{12}{5}$$

The solution is .

Graph the solution.



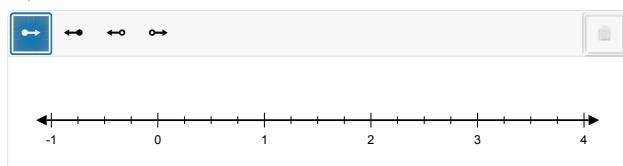
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13. Solve the inequality.

$$-\frac{7}{8} \geq m - \frac{13}{8}$$

The solution is .

Graph the solution.



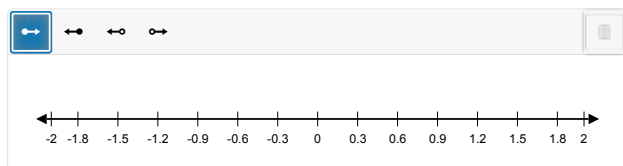
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14. Solve the inequality.

$$r + 0.2 < -0.7$$

The solution is .

Graph the solution.



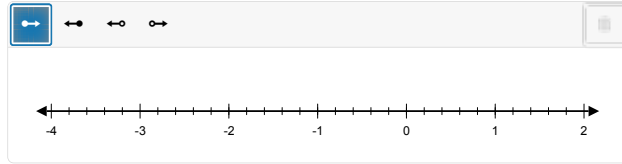
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15. Solve the inequality.

$$h - 6 \leq -8.4$$

The solution is .

Graph the solution.



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- 16.
- YOU BE THE TEACHER**
- Your friend solves the inequality and graphs the solution.

$$\begin{array}{r} x - 7 > -2 \\ + 7 \quad + 7 \\ \hline x > 5 \end{array}$$

Is your friend correct?

- yes
- no

Explain your reasoning.

B / U

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- 17.
- YOU BE THE TEACHER**
- Your friend solves the inequality and graphs the solution.

$$\begin{array}{r} b \leq x + 3 \\ - 3 \quad - 3 \\ \hline 5 \leq x \end{array}$$

Is your friend correct?

- yes
- no

Explain your reasoning.

B / U

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- 18.
- MODELING REAL LIFE**
- A large airboat can hold 30 passengers. Seventeen passengers board the airboat.

a. Write an inequality that represents the additional numbers of passengers that can board the airboat.

An inequality is .

Solve the inequality.

The solution is .

b. Can 14 more passengers board the airboat?

- yes
- no

Explain.

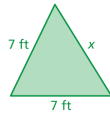
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19. **GEOMETRY** Find the possible values of x .

The perimeter is less than 28 feet.

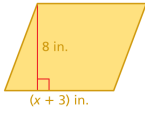


The possible values of x are .

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20. **GEOMETRY** Find the possible values of x .

The base is greater than the height.



The possible values of x are .

Grade 6 Accl: FL 2023-Chapter 7-Section 7.6: Solving Inequalities Using Addition or Subtraction-7.6: Practice (9 - 30) Question #31