



Questions?
Ask a live tutor now!

Ask Question

Solve: $x/3 < 5$

Question

Answer

$$\frac{x}{3} < 5$$

$$\frac{x * \cancel{3}}{\cancel{3}} < 5 * 3$$

$$x < 15$$

5. Inequalities

[Graphs of inequalities](#)

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[Subtracting in inequalities](#)

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Questions?
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Ask Question 

Solve: $x/5 < 100$

Question

Answer

$$\frac{x}{5} < 100$$

$$\frac{x * \cancel{5}}{\cancel{5}} < 100 * 5$$

$$x < 500$$

5. Inequalities

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Questions?
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Ask Question 

Solve: $x/5 < -100$

Question

Answer

$$\frac{x}{5} < -100$$

$$\frac{x * \cancel{5}}{\cancel{5}} < (-100 * 5)$$

$$x < -500$$

5. Inequalities

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Questions?
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Solve: $x/-5 > 100$

Question

Answer

$$\frac{x}{-5} > 100$$

$$\frac{x * \cancel{-5}}{\cancel{-5}} < 100 * -5$$

$$x < -500$$

The diagram shows the steps of solving the inequality. It starts with $\frac{x}{-5} > 100$. A green arrow points from the denominator -5 to the inequality sign, indicating that the sign must be flipped. The next step shows $\frac{x * \cancel{-5}}{\cancel{-5}} < 100 * -5$, where the -5 in the denominator is crossed out and -5 is multiplied to the right side. A blue oval highlights $100 * -5$. A final blue arrow points from this oval to the final answer $x < -500$, which is enclosed in a blue box.

5. Inequalities

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Questions?
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Solve: $x/4 < 7$

Question

Answer

$$\frac{x}{4} < 7$$

$$\frac{x * \cancel{4}}{\cancel{4}} < 7 * 4$$

$$x < 28$$

5. Inequalities

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Questions?
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Ask Question 

Solve: $x/-12 < 5$

Question

Answer

$$\frac{x}{-12} < 5$$

$$\frac{x * \cancel{-12}}{\cancel{-12}} > 5 * -12$$

$$x > -60$$

5. Inequalities

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