Multiplying in inequalities

Problem 1 of 6

Question

Solve: $x/3 < 5$

Answer

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

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

$$x < 15$$

Multiplying in inequalities

Problem 2 of 6

Question

Solve: $x/5 < 100$

Answer

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

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

$$x < 500$$

Multiplying in inequalities

Problem 3 of 6

Question

Solve: $x/5 < -100$

Answer

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

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

$$x < -500$$

Multiplying in inequalities

Problem 4 of 6

Question

Solve: $x/-5 > 100$

Answer

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

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

$x < -500$

Multiplying in inequalities

Problem 5 of 6

Question

Solve: $x/4 < 7$

Answer

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

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

$$x < 28$$

Problem 6 of 6

Question

Solve: x/-12 < 5

Answer

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

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

$x > -60$