Multiplying in inequalities

Problem 1 of 6

Question

Solve: $x/3 < 5$

Answer

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

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

$$\boxed{x < 15}$$

Questions?
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Ask Question

Problem 2 of 6

Question

Solve: $x/5 < 100$

Answer

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

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

$$\boxed{x < 500}$$

Problem 3 of 6

Question

Solve: $x/5 < -100$

Answer

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

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

$$\boxed{x < -500}$$

Problem 4 of 6

Question

Solve: x/-5 > 100

Answer

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

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

$$\boxed{x < -500}$$

Problem 5 of 6

Question

Solve: $x/4 < 7$

Answer

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

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

$$\boxed{x < 28}$$

Problem 6 of 6

Question

Solve: $x/-12 < 5$

Answer

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

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

$$\boxed{x > -60}$$