Solving Inequalities

One - Step	Multi - Step	Absolute Value	Word problems	Graphing
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400

Player A

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One - Step for 100.

Solve $3x < 15$

a	$x < 3$
b	$x > 3$
c	$x > 5$
d	$x < 5$
e	$x < -5$

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One - Step for 200.

Solve $\frac{2}{5}x > 10$

a	$x > 25$
b	$x > 4$
c	$x < 25$
d	$x < 4$
e	$x > 50$

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One - Step for 300.

Solve $-3x < 9$

a	$x < 3$
b	$x > 3$
c	$x < -3$
d	$x > -3$
e	no solution

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One - Step for 400.

Solve $x - 3 > 4$

a	$x > 4$
b	$x < -4$
c	$x > 7$
d	$x < -7$
e	$x > 4$

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Multi - Step for 100.

Solve $3x - 5 > 7$

a	$x < 4$
b	$x > 3$
c	$x > -4$
d	$x > 4$
e	$x > 15$

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Multi - Step for 200.

Solve $-2x + 5 < 9$

a	$x < -2$
b	$x > -2$
c	$x > 2$
d	$x < 2$
e	$x < 8$

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Multi - Step for 300.

Solve $4x - 3 > 5x + 2$

a	$x > 6$
b	$x > -5$
c	$x > 9$
d	$x < -5$
e	$x < 9$

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Multi - Step for 400.

Solve $x + 2 < 3x - 2$

a	$x > -2$
b	$x > 2$
c	$x < 2$
d	$x < 0$
e	$x > 0$

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Absolute Value for 100.

Solve $|x| = 6$

a 6

b -6

c 6 and -6

d 3

e 2

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Absolute Value for 200.

Solve $|x| = -3$

a 3

b -3

c 3 and -3

d all real numbers

e no solution

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Absolute Value for 300.

Solve $|x| + 3 = 8$

a 5

b -5

c 8 and -8

d 5 and -5

e no solution

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Absolute Value for 400.

Solve $|x - 4| = 9$

a 13

b 5

c 5 and -5

d 13 and -13

e -5 and 13

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Word problems for 100.

The difference of fifteen and a number is less than twice the number. Which equation represents this statement?

a $15 + x < 2x$

b $15 - x > 2x$

c $15 - x < 2x$

d $5 - x < 2x$

e $15 - x < 3x$

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Word problems for 200.

A spiral notebook is on sale for \$.39. How many could you buy for \$2.00? Which equation represents this situation?

a	$y > .39x + 2.00$
b	$y < 2.00 - .39$
c	$y > 2.00 - .39x$
d	$.39x < 2.00$
e	$.39x > 2.00$

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Word problems for 300.

The sum of three times a number and two is greater than eleven. What is the number?

a 3

b 1

c -3

d -4

e 5

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Word problems for 400.

Sour gumballs cost $.33 each. What is the maximum you could buy with $3.00?

a 6

b 7

c 8

d 9

e 10

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Graphing for 100.

Which answer describes the graph for $4 < x$?

a. A solid dot on 4 and an arrow pointing to the right

b. A solid dot on 4 and an arrow pointing to the left

c. An open dot on 4 and an arrow pointing to the right

d. An open dot on 4 and an arrow pointing to the left

e. A dot on 4

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Graphing for 200.

Solve the following and then find the answer that represents the graph $-5x + 1 < 11$

a. An open dot on 2 and an arrow pointing to the right

b. An open dot on 2 and an arrow pointing to the left

c. An open dot on negative 2 and an arrow pointing to the left

d. An open dot on negative 2 and an arrow pointing to the right

e. A solid dot on 2

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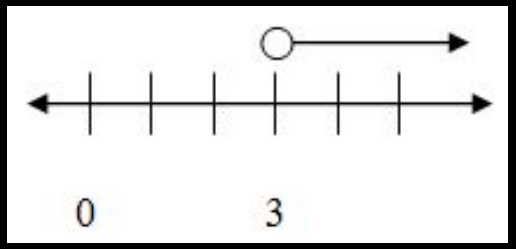
Graphing for 300.

Which inequality represents the following graph?



a	$x \leqslant 3$
b	$x \geqslant 3$
c	$x < 3$
d	$x > 3$
e	$x > 0$

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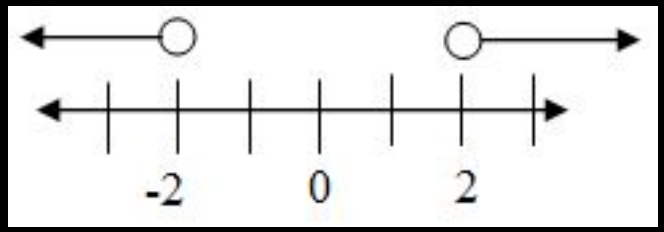
Graphing for 400.

Which inequality represents the following graph?



a $x > 2$

b $x < 2$

c $|x| > 2$

d $|x| < 2$

e $|x + 2| > 0$

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