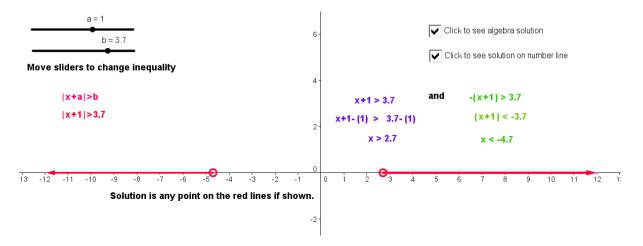


Student Activity: To investigate |x-a|>b

Use in connection with the interactive file, 'Absolute Value Greater than', on the student's CD.



1.

a. Given |x-2|>5, $x \in R$, write this as 2 possible inequalities.

b. Solve these inequalities.

c. Show the solution which satisfies |x-2|>5 on the number line. Use different coloured pens and explain what each colour means.

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

d. Check your results using the interactive file.

2.

a. Given |x+3|>4, $x \in R$, write this as 2 possible inequalities.



b.	Solve these inequalities.
c.	Show the solution which satisfies x+3 >4 on the above number line. Use different coloured pens and explain what each colour means.
	-10 -9 -8 -7 -8 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10
d.	Check your results using the interactive file.
а.	Given $ x - 1.5 > 0$, $x \in R$, write this as 2 possible inequalities.
b.	Solve these inequalities.
C.	Show the solution which satisfies $ x - 1.5 > 0$ on the above number line. Use different coloured pens and explain what each colour means.
	-10 -9 -8 -7 -8 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10
d.	Check your results using the interactive file.