

Absolute Value Quiz PDF

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Discuss the significance of absolute value in mathematical problem-solving and its impact on understanding distances.			
If $ x = 10$, what are the possible values of x?			
10 only-10 only0 and 1010 and -10			
What is the result of I0I?			
○ 0○ 1○ -1○ Undefined			
The graph of y = lxl is shaped like a:			
◯ Line◯ Circle◯ V◯ Parabola			

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Provide a step-by-step solution to the equation $1x + 2l = 8$.			
What is the absolute value of -7?			
○ - 7			
○ 0			
○ 7			
○ 14			
Which of the following represents the absolute value of a number x?			
○ x^2			
○ -x			
○ lxl			
○ 1/x			
Which of the following are properties of absolute value? (Select all that apply)			
$ x \ge 0 $			
x = -x if $ x < 0$			
Which of the following is always true for any real number x?			
○ IxI < 0			
\bigcirc x = x			
$\bigcirc x \ge 0$			
\bigcirc $ x = -x$			
What is the absolute value of the expression I3 - 5I?			

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○ -2	
○ 2	
8	
○ 0	
Which of the following inequalities are equivalent to $lxl < 3$? (Select all that	at apply)
☐ -3 < x < 3	
$\square x > -3$	
□ x = 3	
What are the solutions to the equation $1x - 41 = 6$? (Select all that apply)	
x = 10	
□ x = -2	
□ x = 4	
Solve the inequality I2x - 3I > 5 and explain your solution process.	
	//
How does the graph of $y = x $ differ from the graph of $y = x$?	
now does the graph of y = 1x1 differ from the graph of y = x:	

Explain in your own words what the absolute value of a number represents.



Which equation represents the condition where x is 5 units away from 0?
○ x = 5
○ lxl = 5
○ x = -5
\bigcirc IxI = 0
In which situations would you use absolute value? (Select all that apply)
Calculating distances
Determining direction
Solving quadratic equations
Which of the following statements about absolute value are true? (Select all that apply)
☐ xy = x * y
$ x/y = x / y $ for $y \neq 0$
Which of the following expressions are equal to Ixl? (Select all that apply)
□ √(x^2)
-x if $x < 0$
□ x^2

Describe a real-world scenario where absolute value is used and explain why it is important in that context.



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