

NOTE 87,50 %

Practice guiz on the Number Line including

ractice quiz on	the Hallise	Line, including
Inequalities		
TOTAL DES POINTS 9		

TO	TAL DES POINTS 8	
1.	Which of the following real numbers is <i>not</i> an integer? ○ 7 ○ -3 ② 4.3 ○ 0 ✓ Correct 4.3 is a decimal that is between two consecutive integers (4 and 5).	1/1 point
2.	Which of the following is the absolute value $ -7 $ of the number -7 ? \bigcirc 1 \bigcirc -7 \bigcirc 0 \bigcirc 7	1/1 point
	\checkmark Correct The absolute value of a number x is the distance along the number line from x to 0 . In this case, -7 is 7 units away from 0 , and so $ -7 =7$.	
	Suppose I tell you that x and y are two real numbers which make the statement $x < y$ true. Which pair of numbers \underline{cannot} be values for x and y ? $\bigcirc x = -17.3 \text{ and } y = -17.1$ $\bigcirc x = 1 \text{ and } y = 7.3$ $\bigcirc x = 5 \text{ and } y = 3.3$ $\bigcirc x = -1 \text{ and } y = 0$	0 / 1 point
	Incorrect $ \text{The statement } x < y \text{ means that } x \text{ is to the left of } y \text{ on the real number line. Since } -1 \text{ is to the left of } 0, \text{ these could certainly be values for } x \text{ and } y. $	
4.	Suppose I tell you that w is a real number which makes both of the following statements true: $w>1$ and $w<1.2$. Which of the following numbers could be w ?	1/1 point
	\checkmark correct $1.05 > 1 \text{ is true since } 1.05 \text{ is to the right of } 1 \text{ on the real number line, and } 1.05 < 1.2 \text{ is also true, since } 1.05 \text{ is to the left of } 1.2 \text{ on the real number line.}$	

	\bigcirc $x=4y$	
	$\bigcirc \ x+2=4y$	
	$\bigcirc \ 2x+6=8y+2$	
	$\bigcirc \ x = 4y - 2$	
	\checkmark Correct The equation $x=4y$ cannot be derived from the given equation.	
	The equation $w = xy$ cannot be derived from the given equation.	
c	Which of the fellowing and purphase is in the agent interrupt (2, 2)?	A/Amaint
о.	Which of the following real numbers is in the open interval $(2,3)$?	1 / 1 point
	O 1	
	O 2	
	● 2.1	
	© 2.1	
	✓ Correct	
	Recall that the open interval $(2,3)$ consists of all real numbers x which satisfy $2< x<3$. Since $2.1>2$ and $2.1<3$, the number 2.1 is in this	
	open interval.	
7.	Which of the following real numbers are in the open ray $(3.1,\infty)$?	1 / 1 point
	O 0	
	○ 3.1	
	4.75	
	O -5	
	\checkmark Correct Recall that $(3.1,\infty)=\{x\in\mathbb{R} x>3.1\}.$ Since $4.75>3.1$ is true, $4.75\in(3.1,\infty).$	
8.	Which of the following values for x solves the equation $-3x+2=-4$	1/1 point
	lacktriangledown $x=2$	
	$O_{x} = \frac{2}{3}$	
	-	
	$\bigcirc x = -2$	
	$igcirc$ All values of x such that $x \leq 2$	
	✓ Correct	
	First we subtract 2 from both sides of the given	
	equation, to obtain $-3x=-6$. Finally, to isolate x we divide both sides of the equation by -3 to obtain $x=2$.	