Practice quiz on the Number Line, including Inequalities

1.	Which of the following real numbers is <i>not</i> an integer?	1/1 point
(• 4.3	
(0 0	
(O -3	
	0 7	
	Ŭ ·	
	\checkmark Correct $4.3 \text{ is a decimal that is between two consecutive integers } (4 \text{ and } 5).$	
	Which of the following is the absolute value $ -7 $ of the number -7 ?	1/1 point
(O 0	
(7	
(O -7	
	O 1	
	Ŭ 1	
	\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 on numbers $ ag{cannot}$ be values for x and y ?	f 1/1 point
($\bigcirc \ x = -17.3$ and $y = -17.1$	
(x=1 and $y=7.3$	
	\bigcirc $x=-1$ and $y=0$	
	$lackbox{0} x=5$ and $y=3.3$	
	\checkmark Correct The statement $x < y$ means that x is to the left of y on the real number line. Since 5 is to the right of 3.3 , these cannot be values for x and y .	
(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 ? $ w=1.2 $	1/1 point
	w = 1.05	
($\bigcirc w = 0$	
	$\label{eq:correct} $1.05>1$ is true since 1.05 is to the right of 1 on the real number line, and $1.05<1.2$ is also true, since 1.05 is to the left of 1.2 on the real number line.}$	
	Suppose that x and y are two real numbers which satisfy $x\!+3=4y+1$. Which of the following statements are false?	1/1 point
(x = 4y - 2	
(x+2=4y	
	$\bigcirc 2x + 6 = 8y + 2$	
	-	
	✓ Correct	
	The equation $x=4y$ cannot be derived from the given equation.	
	Which of the following real numbers is in the open interval $(2,3)$?	1/1 point
(O 1	
	O 2	
(
	O 3	

