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Practice quiz on the Number Line, including Inequalities

PUNTOS TOTALES DE 8

1.	Which of the following real numbers is <u>not</u> an integer?	1 / 1 puntos
	O 7	
	O 0	
	(a) 4.3	

2. Which of the following is the absolute value |-7| of the number -7?

4.3 is a decimal that is between two consecutive integers (4 and 5).

1 / 1 puntos

- \bigcirc 0
- 0 1
- O -7
- 7



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.

3. Suppose I tell you that x and y are two real numbers which make the

1 / 1 puntos

statement x < y true. Which pair of numbers <u>cannot</u> be values for x and y?

- x = 1 and y = 7.3
- $\bigcirc x = -1 \text{ and } y = 0$
- x = -17.3 and y = -17.1

✓ 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.

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?

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- w = 1.05
- $\bigcirc w = 11$
- w = 1.2
- $\bigcirc w = 0$

✓ 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.

5. Suppose that x and y are two real numbers which satisfy x+3=4y+1. Which of the following statements are false?

1 / 1 puntos

- $\bigcirc x = 4y 2$

- 2x + 6 = 8y + 2
- x + 2 = 4y

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 puntos

- 2
- 2.1
- 3

Correct

Recall that the open interval (2,3) consists of all real numbers xwhich satisfy $2 \le x \le 3$. Since $2.1 \ge 2$ and $2.1 \le 3$, the number 2.1 is in this open interval.

Which of the following real numbers are in the open ray $(3.1, \infty)$?

1 / 1 puntos

- 0
- 3.1
- **4.75**

Recall that $(3.1, \infty) = \{x \in \mathbb{R} \mid x > 3.1\}$. Since 4.75 > 3.1 is true, $4.75 \in (3.1, \infty)$.

Which of the following values for x solves the equation -3x + 2 = -4

1 / 1 puntos



- \bigcirc All values of x such that $x \le 2$
- $\bigcirc x = -2$
- $\bigcirc x = \frac{2}{3}$

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.