

8 Review Day 6

Place the following points on the number line below.

A: $\frac{16}{3}$

B: $\sqrt{19}$

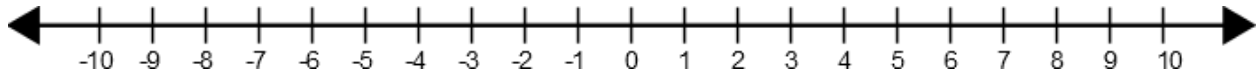
C: -4π

D: $-4.\bar{5}$

E: $-\sqrt{36}$

F: $-4\frac{1}{5}$

G: $\sqrt[3]{-125}$



Esther steps outside her house and goes for a leisurely stroll at 5:38 AM on a Thursday. She walks 8 miles north before stopping to take a breather. She then turns and walks 5 miles east before stopping to tie her shoes. She decides to head home, so she turns, faces her house, and walks straight to it. Determine the total distance of Esther's morning walk.

Calculate the slope of the line connecting the pairs of points listed below.

$(-15, 22)$ and $(910, 22)$

$(-4, -11)$ and $(13, -13)$

$(0, 18)$ and $(70, -6)$

$(338, -111)$ and $(338, 444)$

Order the numbers below from least to greatest.

-68

1.4444444

$\sqrt{2}$

$\frac{13}{9}$

$\frac{\pi}{2}$

$\sqrt{15}$

2^2

Identify the slope and the y -intercept of the line given by each equation listed below.

$y = -7x + 15$

$y = 34x$

$y = -\frac{3}{4}x - 1$

$y = 6$

A man who makes wigs for dogs offers to buy Mr. Carlson's hair. The man offers MC a flat rate of \$18.22 for the hair as well as \$0.09 per strand of hair removed from MC's scalp. Write an equation for the money M that MC will earn if he sells s strands of hair. Use this equation to determine how much MC will make if he sells all 3435 strands of his hair.

Give two unique examples for each type of number listed below. Explain why each number belongs to each category.

Natural Numbers

Integers

Rational Numbers

Irrational Numbers