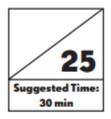
Name:

Date: _____

CHAPTER TEST B



The Real Number System



Concepts and Skills (10 × 1 point = 10 points)

Write each number in $\frac{m}{n}$ form where m and n are integers with $n \neq 0$. Simplify your answers.

2.
$$8\frac{1}{7}$$

For each pair of numbers, find the absolute value of each number. Then, determine which number is farther from 0 on a number line.

5.
$$\frac{127}{9}$$
 and $\frac{15}{2}$

Fill in the blank.

7. There are ______ significant digits in -0.0009040.

Round each number to the given number of significant digits.

Locate the rational number $-\frac{99}{7}$ on the number line.

Solve. Show your work.

11. Using a calculator, express the rational numbers $-\frac{19}{12}$ and $-\frac{67}{46}$ in decimal form and determine which rational number is smaller.

12. Using long division, write the rational numbers $\frac{43}{9}$ and $\frac{45}{11}$ in decimal form using bar notation and order them on a number line.

13. You are given the list of real numbers below.

$$-\sqrt[3]{305\pi}$$
 , -9.8612, $-\pi^2$, and $-\frac{79}{8}$

a) Represent each real number in decimal form with 3 decimal places.

b) Order the real numbers from greatest to least using the symbol >.

Locate each number on a real number line.

14. With the use of a calculator, locate the irrational number $\sqrt{629}$ to 2 decimal places on the number line using rational approximations.

15. The population of California in 2009 is approximately 36,961,664. Round the population to 3 significant digits.

16. Given that 1 fluid ounce = 29.57353 milliliters, what is the approximate value of milliliters to 1 fluid ounce if you round the figure to 2 significant digits?

Chapter 1 Test B

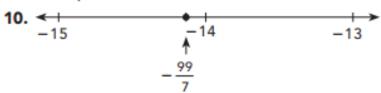
1.
$$-\frac{141}{25}$$

2.
$$\frac{57}{7}$$

3.
$$\frac{83}{4,000}$$

4.
$$-\frac{1,999}{1,000}$$

5.
$$\frac{127}{9}$$
; $\frac{15}{2}$; $\frac{127}{9}$ is farther from 0.



11.
$$-1.5833...$$
; -1.457 ; $-\frac{19}{12}$ is smaller.





b)
$$-\sqrt[3]{305\pi} > -9.8612 > -\pi^2 > -\frac{79}{8}$$

