

Pre-Algebra, Unit 01 Practice Test: Rational Numbers and Decimal Expansion

Name: _____

Date: _____

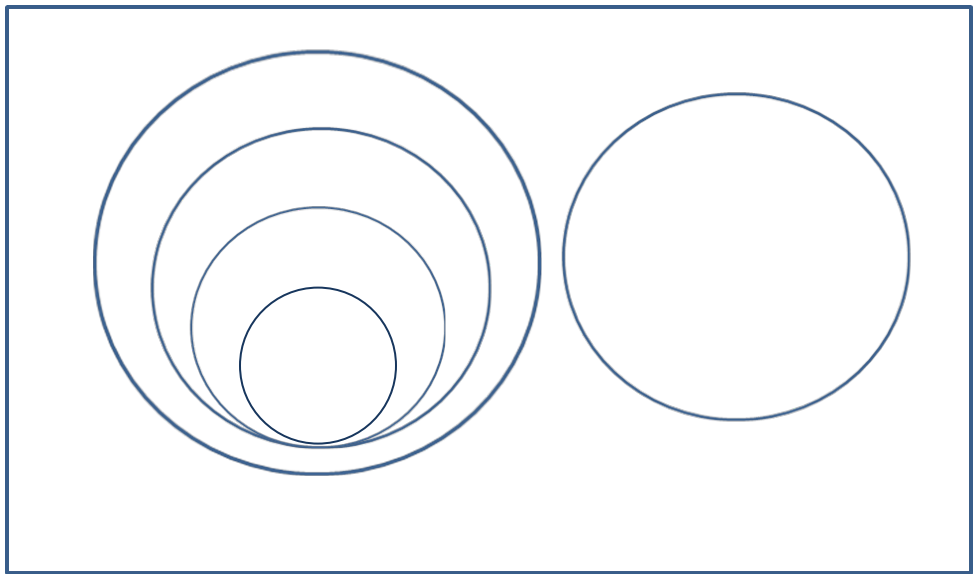
1. Define *rational number* and give an example.

2. Define
a) *repeating decimal* and give an example.

b) *terminating decimal* and give an example.

3. **Label** the Venn Diagram with the following: *Integers, Irrational Numbers, Natural Numbers, Real Numbers, Rational Numbers, and Whole Numbers.*

Give one example of each type of number.



4. (SE/SBAC) What is the decimal expansion of the number $\frac{5}{12}$? Show your work. Is the number $\frac{5}{12}$ rational or irrational? Explain.

5. (SE) Which number is NOT equivalent to

$$3\frac{3}{11}?$$

- A. $\frac{36}{11}$
- B. $3\frac{6}{22}$
- C. $3.2\overline{7}$
- D. $3.\overline{27}$

6. (SE) Which number is equivalent to 0.65 ?

- A. $\frac{1}{65}$
- B. $\frac{13}{20}$
- C. $\frac{5}{6}$
- D. $\frac{13}{2}$

7. (SE) What is the decimal equivalent of $-\frac{11}{6}$?

- A. 0.54
- B. $0.5\overline{4}$
- C. $-1.8\overline{3}$
- D. $-1.\overline{83}$

8. (SAT) $\frac{3 + \diamond}{2} = 7\frac{1}{2}$

What number, when used in place of \diamond above, makes the statement true?

- A. 15
- B. 12
- C. 5
- D. 4

9. (SBAC/SE) Put a check in all of the columns that apply for each number.

Number	Integer	Rational	Irrational	Real
$\frac{3}{7}$				
$\sqrt{15}$				
π				
-3				

10. (SE) Write $0.\overline{63}$ as a fraction. Show and explain each step.

11. (SBAC) Write $3.0\overline{6}$ as a fraction. Show your work.

