

SECONDARY MATH II  
 EXTENDING THE NUMBER SYSTEM  
 PROPERTIES OF NUMBERS

NAME \_\_\_\_\_  
 DATE \_\_\_\_\_  
 CLASS \_\_\_\_\_

Answer the following questions.

**Question 1**  
 A rational number can always be written in what form?

A. decimal      B. percent  
 C. fraction      D. square root

**Question 2**  
 Which is a rational number?

A.  $\sqrt{2}$       B. 3.1415.....  
 C.  $\sqrt{15}$       D.  $\sqrt{25}$

**Question 3**  
 Which number is irrational?

A. -6      B.  $\sqrt{3}$   
 C.  $\frac{3}{4}$       D. 0.5

**Question 4**  
 $\pi$  is \_\_\_\_\_.

A. A rational number      B. Whole number  
 C. An irrational number      D. Natural number

**Question 5**  
 Which of these is an irrational number?

A.  $\frac{-1}{7}$       B. 2.16  
 C.  $\sqrt{36}$       D. 0.34571302...

**Question 6**  
 Which of the following numbers is irrational?

A.  $\sqrt{32}$       B.  $\sqrt{49}$   
 C. 4.05      D.  $\frac{2}{11}$

**Question 7**  
 Which statement is NOT correct?

A. A rational number can be written as a ratio.      B. An irrational number can be written as a decimal.  
 C. An irrational number can be written as a fraction.      D. An irrational number has endless non-repeating digits to the right of the decimal point.

**Question 8**  
 Which of these is a rational number?

A.  $\sqrt{8}$       B. 0.13133133313...  
 C. 0.33333.....      D. 2.71828182845904.....

**Question 9**  
 \_\_\_\_\_ can be ordered on a number line.

A. Rational numbers      B. Irrational  
 C. Both, rational and irrational numbers      D. none of the above

**Question 10**  
 Which is a rational number?

A.  $\sqrt{4/9}$       B. 2.123456.....  
 C. cube root of 48      D. square root of 27