Name: _____ Period: _____ Date: _____

Identifying Irrational Numbers Exit Quiz   Math 8

Multiple choices

1. **Which of the following numbers is rational?**

   a.) -2.121212121 b.) $-0.256345 ... ...$

   c.) $\sqrt{7}$ d.) 2.123212528

2. **Which of the following numbers is irrational?**

   a.) $3\frac{7}{13}$ b.) $4.2346745 ... .$

   c.) $\sqrt{529}$ d.) $\frac{5}{125}$

3. **Which of the following numbers is a terminating decimal?**

   a.) $\frac{6}{16}$ b.) $\frac{12}{13}$

   c.) $2.\overline{21}$ d.) $0.2\overline{3}$

4. **Classify each number below as either rational or irrational.**
   If you believe your number is rational, prove your answer by writing it as a fraction.

Number	Rational/Irrational	Fraction
$0.\overline{23}$		
0.34		
$-4.\overline{3}$		
$-\sqrt{42}$		
$0.34129145..$		

Identifying Irrational Numbers Exit Quiz   **Math 8**

5.   **Find the value of each square root and then classify.**

Number	Value	Perfect square	Irrational Number
$\sqrt{64}$			
$\sqrt{24}$			
$\sqrt{81}$			
$-\sqrt{\dfrac{5}{6}}$			
$\sqrt{50,625}$			