Rational vs Irrational Numbers

Name_____ Period:_____ Date:_____

Directions: Use the information given to solve each problem.

1. Which list shows **only** rational numbers?

   A. $\sqrt{2}$,   -π , $5\sqrt{12}$

   B. $\frac{1}{2}$,   4 ,   -3.75

   C. 0.333... , $\sqrt{7}$,   π

   D. 8 , $\frac{7}{3}$, $\sqrt{11}$

2. Which list shows **only** irrational numbers?

   A. $3\sqrt{2}$, $\sqrt{5}$,   π

   B. $\frac{4}{3}$,   12 ,   -4.5

   C. 0.5 , $\sqrt{4}$,   5π

   D. 23 , $\frac{1}{3}$, $\sqrt{10}$

3. Which list shows **only** irrational numbers?

   A. $5\sqrt{4}$, $\sqrt{9}$, $\sqrt{25}$

   B. $\frac{25}{3}$, $\sqrt{2}$,   -4.5

   C. $\sqrt{12}$, $\sqrt{3}$,   5π

   D. 2.13 , $\frac{21}{3}$, $\sqrt{10}$

4. Which list shows **only** irrational numbers?

   A. $5\sqrt{4}$, $\sqrt{9}$, $\sqrt{25}$

   B. $\frac{25}{3}$, $\sqrt{2}$, -4.5

   C. $\sqrt{12}$, $\sqrt{3}$, 5π

   D. 2.13 , $\frac{21}{3}$, $\sqrt{10}$

5. For each number, indicate whether it is rational or irrational.

	Rational	Irrational
$\frac{2}{7}$	☐	☐
$\sqrt{7}$	☐	☐
$\frac{20}{\sqrt{16}}$	☐	☐
4π	☐	☐
$\frac{4}{9}$	☐	☐

Name_____   Period:_____   Date:_____

Answer Key

Directions: Use the information given to solve each problem.

1. Which list shows **only** rational numbers?

    A. $\sqrt{2}$,   -π , $5\sqrt{12}$

    B. $\frac{1}{2}$,   4 ,   -3.75   **B**

    C. 0.333... , $\sqrt{7}$,   π

    D. 8 , $\frac{7}{3}$, $\sqrt{11}$

2. Which list shows **only** irrational numbers?

    A. $3\sqrt{2}$, $\sqrt{5}$,   π

    B. $\frac{4}{3}$,   12 ,   -4.5   **A**

    C. 0.5 , $\sqrt{4}$,   5π

    D. 23 , $\frac{1}{3}$, $\sqrt{10}$

3. Which list shows **only** irrational numbers?

    A. $5\sqrt{4}$, $\sqrt{9}$, $\sqrt{25}$

    B. $\frac{25}{3}$, $\sqrt{2}$,   -4.5   **C**

    C. $\sqrt{12}$, $\sqrt{3}$,   5π

    D. 2.13 , $\frac{21}{3}$, $\sqrt{10}$

Free EOC Prep at *Higher-GroundSoftware.com*

4. Which list shows **only** irrational numbers?

   A. $5\sqrt{4}$, $\sqrt{9}$, $\sqrt{25}$

   B. $\frac{25}{3}$, $\sqrt{2}$, -4.5   C

   C. $\sqrt{12}$, $\sqrt{3}$, 5π

   D. 2.13 , $\frac{21}{3}$, $\sqrt{10}$

5. For each number, indicate whether it is rational or irrational.

	Rational	Irrational
$\frac{2}{7}$	🔴	☐
$\sqrt{7}$	☐	🔴
$\frac{20}{\sqrt{16}}$	🔴	☐
4π	☐	🔴
$\frac{4}{9}$	🔴	☐