

NAME: _____ Score _____/10

Please **print** your name**SHOW ALL YOUR WORK IN A NEAT AND ORGANIZED FASHION**

1. A **fraction** consists of a numerator, a denominator, and the indicated division of the numerator by the denominator.
2. A fraction is a **complex** fraction if its numerator or its denominator (or both) contains a fraction.
3. The set of **Rational** Numbers consists of all numbers which can be written as fractions.
4. A **rational** expression is an expression that can be written as the quotient of two polynomials with the denominator not zero
5. The domain of a rational expression, unless otherwise stipulated, is the set of all real numbers for which the **denominator** is not zero.
6. If $\frac{a}{b}$ and $\frac{c}{d}$ are fractions, then their product is defined by $\left(\frac{a}{b}\right)\left(\frac{c}{d}\right) = \frac{ac}{bd}$
7. ALL Division is done by changing to **multiplication**.
8. If $\frac{a}{b}$ and $\frac{c}{b}$ are fractions, then their sum is defined by $\frac{a}{b} + \frac{c}{b} = \frac{a+c}{b}$.
9. A **common denominator** of two fractions $\frac{a}{b}$ and $\frac{c}{d}$ is a number which is divisible by both the denominators b and d.
10. A **complex** rational expression is a rational expression whose numerator or denominator (or both) contains a rational expression.