

**Factoring Review (Intro to Rational Functions)****Factor each completely.**

1)  $4n^2 - 196$

2)  $n^2 + 9n + 20$

3)  $r^2 + 16r + 60$

4)  $4m^2 - 36m + 32$

5)  $3p^2 + 8p + 5$

6)  $5b^2 - 11b + 2$

7)  $2r^2 + 20r + 50$

8)  $7b^2 + 74b + 40$

9)  $r^2 - 2r - 80$

10)  $2n^2 - 21n + 27$

11) What does the word "rational" mean to you?  
What comes to mind when you think of  
"rational," what are some synonyms for  
"rational," how would you describe  
"rational" to a younger student?

12) What basic operation is UNDEFINED in  
math?!

## Answers to Factoring Review (Intro to Rational Functions)

1)  $4(n-7)(n+7)$

5)  $(3p+5)(p+1)$

9)  $(r+8)(r-10)$

2)  $(n+5)(n+4)$

6)  $(5b-1)(b-2)$

10)  $(2n-3)(n-9)$

3)  $(r+10)(r+6)$

7)  $2(r+5)^2$

11)

4)  $4(m-8)(m-1)$

8)  $(7b+4)(b+10)$

12)