Name:	
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Classifying Rational and Irrational Numbers

Rational Numbers Repeat or <u>terminate</u>
Irrational Numbers go <u>on</u> and <u>on</u> and do <u>not</u> repeat

For each of the numbers below, decide whether it is rational or irrational and explain why?

For each of the numbers below, decide whether it is fational of infational and explain wity?		
Number	Reasoning	
Example: 0.21	Rational because it ends.	
2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
$\frac{3}{12} = \frac{1}{4} = 0.25$	Rat -> terminates	
12 4 0.00	1(0(1 - 10)	
12-2		
12-2 = /()	Rat -> whole #	
10	71 (1 11	
8.33865		
3.14141414		
3.14141414		
12.52		
12.02		
0		
.02202222		
$\sqrt{19}$		
$-\sqrt{32}$		
-V32		
6000		
1		

$8-2\sqrt{3}$	
1.234	
8,876,546	
$\sqrt{64}$	
1_	
9	
777.777777	
$\sqrt{2}-\sqrt{2}$	
$\frac{4}{2} + \frac{5}{2}$	
$\pi * \pi$	
$\sqrt{8}$	
$\frac{\sqrt{8}}{\sqrt{2}}$	
$\sqrt{6} * \sqrt{6}$	
Rational + Rational	
Irrational + Irrational	
Rational(Rational)	
Irrational(irrational)	
Irrational(rational)	
rational 2 - 7	D , RAT-Dal
rational 4	*Kat > Rat - Mat
$\frac{irrational}{irrational}$ $\frac{1}{7} = \frac{1}{13} = \frac{1}{13}$	IPRATIONAL Sometimes Rat Sometimes IPR
	I.

Rat