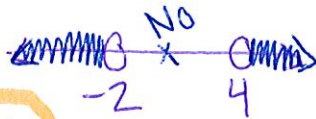


Directions: Solve each rational inequality. Cross out the answer in the table below. The remaining letters will spell out the answer to this riddle.

If two's company and three's a crowd, what are four and five? → **Nine!!**

N $(-\infty, -3)$	O $(-6, -1)$	M $(-\infty, -1] \cup (3, \infty)$	I (0, 3)	E $(-2, \frac{3}{2}]$	L $(-\infty, -5)$	P $(-2, 0]$
H $(-5, -4)$	N $(-\infty, -3) \cup [2, \infty)$	A $[2, \infty)$	E $(-\infty, -3)$	T $(-\infty, -2) \cup (4, \infty)$	S $(-2, 3]$	Y $[-3, -1] \cup [3, \infty)$

1. $\frac{x-4}{x+2} > 0$



$(-\infty, -2) \cup (4, \infty)$

2. $\frac{x+12}{x+2} \geq 3$



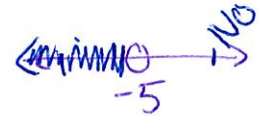
$(-2, 3]$

3. $\frac{2}{x+4} < -2$



$(-5, -4)$

4. $\frac{2}{x+5} \leq 0$



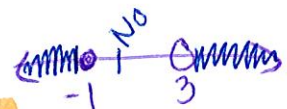
$(-\infty, -5)$

5. $\frac{5x}{x+2} \leq 0$



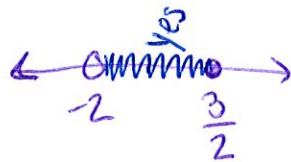
$(-2, 0]$

6. $\frac{4}{x-3} \geq -1$



$(-\infty, -1] \cup (3, \infty)$

7. $\frac{7}{x+2} \geq 2$



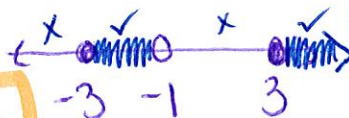
$(-2, \frac{3}{2}]$

8. $\frac{x^2-x-2}{x+1} \geq 0$



$[2, \infty)$

9. $\frac{x^2-9}{x+1} \geq 0$



$[-3, -1) \cup [3, \infty)$

10. $\frac{5}{x+6} > 1$



$(-6, -1)$