The domain is all values that q is allowed to be. Since I can't divide by zero (division by zero isn't allowed, I need to find all values of q that would cause division by zero.

The domain will then be all other q-values. When is this denominator equal to zero?

 $q=\pm 3$ then the domain of w is $\{q \mid q \neq 3 \text{ or } -3\}$

 $q^2 - 9 = 0$