Name : _____

Missing Values

1) The variable p varies jointly with q and r. The value of p is 792 when q = 12 and r = 6.

    a)   Write an equation that relates p, q and r.   _____

    b)   Find the value of q when p = 88 and r = 2.   _____

2) The variable u varies directly with $\sqrt{v}$ and inversely with w. The value of u is $\frac{1}{4}$ when $\sqrt{v} = 3$ and w = $\frac{4}{5}$.

    a)   Write an equa   _____

    b)   Find the value   _____

3) The variable m va   n n = −7.

    a)   Write an equa   _____

    b)   Find the value   _____

4) The variable z vari   en x = 1 and y = 9.

    a)   Write an equa   _____

    b)   Find the value   _____

5) The variable g varies directly with h and inversely with d. The value of g is 35 when d = 3 and h = 21.

    a)   Write an equation that relates d, g and h.   _____

    b)   Find the value of d when g = 15 and h = 27.   _____