Name : _____

Missing Values

1) The variable y varies jointly with x and z. The value of y is 312 when x = 8 and z = 13.

   a) Write an equation that relates x, y and z.   _____

   b) Find the value of y when x = 5 and z = 7.   _____

2) The variable m varies directly with n and inversely with h. The value of m is 1.8 when h = 4.5 and n = 7.5.

   a) Write an equa   _____

   b) Find the value   _____

3) The variable u var   = 30.

   a) Write an equa   _____

   b) Find the value   _____

4) The variable p var   alue of p is 135 when q = 3 and r = 4.

   a) Write an equa   _____

   b) Find the value   _____

5) The variable d varies jointly with c and f. The value of d is $\frac{1}{3}$ when c = $\frac{5}{6}$ and f = $\frac{8}{9}$.

   a) Write an equation that relates c, d and f.   _____

   b) Find the value of d when c = $\frac{1}{6}$ and f = $\frac{5}{7}$.   _____