

Name \_\_\_\_\_

Date \_\_\_\_\_

### Binomial Theorem for Expansion - Matching Worksheet

Match the binomials to their expanded form.

\_\_\_\_\_ 1.  $(3x + 2y)^3$

a.  $216x^3 + 756x^2y + 882xy^2 + 343y^3$

\_\_\_\_\_ 2.  $(4x + 8y)^2$

b.  $64x^3 + 144x^3y + 108xy^2 + 27y^3$

\_\_\_\_\_ 3.  $(7x + 2y)^4$

c.  $x^2 + 4xy + 4y^2$

\_\_\_\_\_ 4.  $(6x + 7y)^3$

d.  $27x^3 + 54x^2y + 36xy^2 + 8y^3$

\_\_\_\_\_ 5.  $(8x + 6y)^2$

e.  $81x^4 + 216x^3y + 216x^2y^2 + 96xy^3 + 16y^4$

\_\_\_\_\_ 6.  $(3x + 2y)^4$

f.  $2401x^4 + 2744x^3y + 1176x^2y^2 + 224xy^3 + 16y^4$

\_\_\_\_\_ 7.  $(4x + 3y)^3$

g.  $9x^2 + 24xy + 16y^2$

\_\_\_\_\_ 8.  $(6x + 8y)^2$

h.  $16x^2 + 24xy + 9y^2$

