Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Multiplying Binomials

Multiply each pair of binomials and combine like terms.

1. $(6y - 3)(8y - 2)$

2. $(x + 9)(x + 6)$

3. $(6x - 7)(x - 6)$

4. $(m + 3)(5m + 2)$

5. $(8z + 8)(z - 7)$

6. $(9n + 2)(8n - 3)$

7. $(m - 3)(7m + 7)$

8. $(m - 3)(m - 5)$

9. $(6n + 6)(n + 4)$

10. $(p + 6)(p + 7)$

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Multiplying Binomials

Answer key

Multiply each pair of binomials and combine like terms.

1. $(6y - 3)(8y - 2)$

   Distribute

   $48y^2 - 12y - 24y + 6$

   Collect like terms

   $48y^2 - 36y + 6$

2. $(x + 9)(x + 6)$

   Distribute

   $x^2 + 6x + 9x + 54$

   Collect like terms

   $x^2 + 15x + 54$

3. $(6x - 7)(x - 6)$

   Distribute

   $6x^2 - 36x - 7x + 42$

   Collect like terms

   $6x^2 - 43x + 42$

4. $(m + 3)(5m + 2)$

   Distribute

   $5m^2 + 2m + 15m + 6$

   Collect like terms

   $5m^2 + 17m + 6$

5. $(8z + 8)(z - 7)$

   Distribute

   $8z^2 - 56z + 8z - 56$

   Collect like terms

   $8z^2 - 48z - 56$

6. $(9n + 2)(8n - 3)$

   Distribute

   $72n^2 - 27n + 16n - 6$

   Collect like terms

   $72n^2 - 11n - 6$

7. $(m - 3)(7m + 7)$

   Distribute

   $7m^2 + 7m - 21m - 21$

   Collect like terms

   $7m^2 - 14m - 21$

8. $(m - 3)(m - 5)$

   Distribute

   $m^2 - 5m - 3m + 15$

   Collect like terms

   $m^2 - 8m + 15$

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Multiplying Binomials

Answer key

Multiply each pair of binomials and combine like terms.

9. $(6n + 6)(n + 4)$

Distribute

$6n^2 + 24n + 6n + 24$

Collect like terms

$6n^2 + 30n + 24$

10. $(p + 6)(p + 7)$

Distribute

$p^2 + 7p + 6p + 42$

Collect like terms

$p^2 + 13p + 42$