

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## **Multiplying Special Cases** Bell Work

Find the product of the following binomials

1.  $(5x + 8)(5x - 8)$

2.  $(15x + 10)^2$

3.  $(9a + 5b)(9a - 5b)$

4.  $(6b - 3)(6b + 3)$

5.  $(2g - 3r)^2$

6.  $(a + b)(a - b)$

7.  $(2b + 3c)(2b - 3c)$

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

9.  $(4g - 6h)^2$

10.  $(2 - 6k)^2$

# Multiplying Special Cases Bell Work

Answer:

Find the product of the following binomials

1.  $(5x + 8)(5x - 8)$

Answer:

$$(5x)^2 - (8)^2$$

$$25x^2 - 64$$

2.  $(15x + 10)^2$

Answer:

$$(15x)^2 + 2(15x)(10) + (10)^2$$

$$225x^2 + 300x + 100$$

3.  $(9a + 5b)(9a - 5b)$

Answer:

$$(9a)^2 - (5b)^2$$

$$81a^2 - 25b^2$$

4.  $(6b - 3)(6b + 3)$

Answer:

$$(6b)^2 - (3)^2$$

$$36b^2 - 9$$

5.  $(2g - 3r)^2$

Answer:

$$(2g)^2 - 2(2g)(3r) + (3r)^2$$

$$4g^2 - 12rg + 9r^2$$

6.  $(a + b)(a - b)$

Answer:

$$(a)^2 - (b)^2$$

$$a^2 - b^2$$

7.  $(2b + 3c)(2b - 3c)$

Answer:

$$(2b)^2 - (3c)^2$$

$$4b^2 - 9c^2$$

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

Answer:

$$(6x)^2 + 2(6x)(2y) + (2y)^2$$

$$36x^2 + 24xy + 4y^2$$

9.  $(4g - 6h)^2$

Answer:

$$(4g)^2 - 2(4g)(6h) + (6h)^2$$

$$16g^2 - 48gh + 36h^2$$

10.  $(2 - 6k)^2$

Answer:

$$(2)^2 - 2(2)(6k) + (6k)^2$$

$$4 - 24k + 36k^2$$