

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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## Multiplying Monomials and Polynomials

Simplify each expression.

1)  $4n^3(2n^2 - 7nb + 5b^2)$

6)  $2y^3(3y^2 - 7y + 5)$

2)  $3n^2(8n^2 - 6nh + 7h^2)$

7)  $8k^2(2k^2 + 4k + 9)$

3)  $4q^3(3q^2 + 6qn + 8n^2)$

8)  $8s^2(3s^2 + 4sg - 5g^2)$

4)  $2y^2(3y^2 + 8y + 5)$

9)  $3s^2(5s^2 - 7sc + 2c^2)$

5)  $4r^3(2r^2 - 7r + 3)$

10)  $2h^3(6h^2 - 4h - 5)$



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## Multiplying Monomials and Polynomials

Simplify each expression.

1)  $4n^3(2n^2 - 7nb + 5b^2)$

$$8n^5 - 28n^4b + 20n^3b^2$$

6)  $2y^3(3y^2 - 7y + 5)$

$$6y^5 - 14y^4 + 10y^3$$

2)  $3n^2(8n^2 - 6nh + 7h^2)$

$$24n^4 - 18n^3h + 21h^2n^2$$

7)  $8k^2(2k^2 + 4k + 9)$

$$16k^4 + 32k^3 + 72k^2$$

3)  $4q^3(3q^2 + 6qn + 8n^2)$

$$12q^5 + 24q^4n + 32q^3n^2$$

8)  $8s^2(3s^2 + 4sg - 5g^2)$

$$24s^4 + 32s^3g - 40g^2s^2$$

4)  $2y^2(3y^2 + 8y + 5)$

$$6y^4 + 16y^3 + 10y^2$$

9)  $3s^2(5s^2 - 7sc + 2c^2)$

$$15s^4 - 21s^3c + 6c^2s^2$$

5)  $4r^3(2r^2 - 7r + 3)$

$$8r^5 - 28r^4 + 12r^3$$

10)  $2h^3(6h^2 - 4h - 5)$

$$12h^5 - 8h^4 - 10h^3$$

