

MATH SCIENCE UNIT
Sandy Sheine
Grades 9-12

B-16

**What Did the Girl Mushroom Say About the Boy Mushroom
 After Their First Date ?**



For each exercise below, multiply the polynomial by the monomial. Find your answer in the set of answers under the exercise and notice the letter next to it. Write this letter in the box that contains the number of that exercise.



- ① $5(2n^2 + n)$
- ② $3n(8n^2 - 2n)$
- ③ $n^2(4n - 3)$
- ④ $-2n(4 + 5n^3)$
- ⑤ $-6n^2(4n^2 - 9)$

Answers:

- ⓑ $-24n^4 - 54n$
- Ⓣ $24n^3 - 4n$
- Ⓡ $-24n^4 + 54n^2$
- Ⓤ $4n^3 - 3n^2$
- Ⓢ $10n^2 + 5n$
- Ⓛ $24n^3 - 6n^2$
- ⓐ $-8n - 6n^3$
- ⓐ $-8n - 10n^4$

- ⓐ $4a(a^2 - 2a + 3)$
- Ⓡ $-2a^2(9 - a - 4a^3)$
- Ⓢ $a^2b(a^2 - b^2)$
- Ⓢ $-3ab^2(a^2b^2 - 2a^2b)$
- ⑩ $2ab(a^2 + 4ab - 3b^2)$

Answers:

- Ⓜ $4a^3 - 8a^2 + 10$
- ⓗ $-18a^2 + 2a^3 + 8a^4$
- ⓔ $2a^3b + 8a^2b^2 - 6ab^3$
- Ⓛ $2a^3b + 8ab^2 - 4ab$
- ⓐ $a^3b - a^2b^3$
- ⓖ $4a^3 - 8a^2 + 12a$
- Ⓦ $-18a^2 + 2a^3 + 6a^4$
- Ⓛ $-3a^4b^4 + 6a^3b^3$

- ⑪ $x^2y(2x^2 - 4xy + y^2)$
- ⑫ $-2xy^2(2x^4 - 5x^2y^2 - 3y^4)$
- ⑬ $4x^2y(-x^2y + 2xy - 5xy^2)$
- ⑭ $-x^2y^2(7xy^3 - x^2y^2 + 3x^2y)$
- ⑮ $3x^2y^2(2x^4y^2 - 3x^2y - 1)$

Answers:

- Ⓝ $-4x^3y^2 + 10x^2y^4 + 6xy^6$
- Ⓢ $2x^3y - 4x^2y^3 + x^2y^4$
- ⓔ $-4x^3y^2 + 8x^4y^2 - 20x^4y^3$
- Ⓤ $-4x^3y^2 + 10x^2y^4 - 20x^2y^3$
- Ⓨ $2x^3y - 4x^2y^3 + x^2y^4$
- ⓕ $6x^6y^4 - 9x^4y^3 - 3x^2y^2$
- Ⓣ $-7x^3y^4 + x^3y^4 - 3x^2y^4$
- Ⓛ $-7x^3y^4 + x^4y^4 - 3x^2y^4$

OBJECTIVE 1-1 To multiply a polynomial by a monomial.

7	10	1	5	13	4	9	2	11	8	15	3	12	6	14
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