

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:

- B $-24n^4 - 54n$
- T $24n^3 - 4n$
- R $-24n^4 + 54n^2$
- U $4n^3 - 3n^2$
- S $10n^2 + 5n$
- L $24n^3 - 6n^2$
- O $-8n - 6n^3$
- A $-8n - 10n^4$

- 6 $4a(a^2 - 2a + 3)$
- 7 $-2a^2(9 - a - 4a^2)$
- 8 $a^2b(a^2 - b^2)$
- 9 $-3ab^2(a^3b^2 - 2a^2b)$
- 10 $2ab(a^2 + 4ab - 3b^2)$

Answers:

- M $4a^3 - 8a^2 + 10$
- H $-18a^2 + 2a^3 + 8a^4$
- E $2a^3b + 8a^2b^2 - 6ab^3$
- I $2a^3b + 8ab^2 - 4ab$
- A $a^4b - a^2b^3$
- G $4a^3 - 8a^2 + 12a$
- W $-18a^2 + 2a^3 + 6a^5$
- L $-3a^4b^4 + 6a^3b^3$

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

Answers:

- N $-4x^5y^2 + 10x^3y^4 + 6xy^6$
- S $2x^4y - 4x^2y^3 + x^2y^4$
- E $-4x^5y^2 + 8x^4y^2 - 20x^4y^3$
- U $-4x^5y^2 + 10x^2y^4 - 20x^2y^3$
- Y $2x^4y - 4x^3y^2 + x^2y^3$
- F $6x^6y^4 - 9x^4y^3 - 3x^2y^2$
- T $-7x^3y^6 + x^5y^4 - 3x^3y^4$
- I $-7x^3y^6 + x^4y^5 - 3x^5y^4$

Multiplying a Polynomial by a Monomial

OBJECTIVE 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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Show answers in the brackets

Why Was the Engineer

Driving the Train Backwards?

Find the missing factor in each exercise below. Find your answer in the set of answers to the right of that exercise. Write the letter next to your answer in the box containing the number of that exercise.

- 1 $x^8 = (x^5)(\quad)$ (T) $4x^5$ (N) x^5
- 2 $24x^5 = (6x^2)(\quad)$ (A) $-5x^5$ (O) $4x^3$
- 3 $-12x^4 = (3x^3)(\quad)$ (H) x^3 (R) $-4x^8$
- 4 $20x^7 = (-4x^2)(\quad)$ (E) $-5x^3$ (I) $-4x$

- 5 $a^5b^8 = (a^2b^3)(\quad)$ (P) a^2b^2 (E) a^3b^5
- 6 $4a^2b^6 = (2ab^2)(\quad)$ (V) $5a^3b^3$ (A) $-12a^2b^4$
- 7 $-15a^7b^4 = (-3a^4b)(\quad)$ (L) $2ab^7$ (H) $-12a^5b$
- 8 $72a^{10}b^3 = (-6a^5b^2)(\quad)$ (O) $2ab^4$ (K) $5a^5b^3$

- 9 $x^5y^3 = (x^2)(\quad)$ (V) $-3y^4$ (O) $3x^2y^6$
- 10 $-6x^2y^7 = (-2y)(\quad)$ (L) $-2x^7$ (T) $3x^2y^3$
- 11 $14x^9y^6 = (-7x^2y^6)(\quad)$ (S) $-2x^6y$ (A) x^3y^3
- 12 $27x^4y^3 = (9x^4y)(\quad)$ (B) x^2y^4 (E) $3y^2$

- 13 $-3u^1v^2 = (u^2v)(\quad)$ (R) $-2uv^5$ (R) $-3u^2v^4$
- 14 $32uv^5 = (-16v^2)(\quad)$ (M) $11v^2$ (C) $-3u^2v^{11}$
- 15 $121u^2v^3 = (11u^2v)(\quad)$ (P) $11uv^3$ (E) $3u^2v^6$
- 16 $-6u^3v^{12} = (2uv)(\quad)$ (T) $-3u^2v$ (D) $-2uv^3$

8	12	1	9	14	4	11	2	16	6	15	10	13	3	7	5
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Copy the question and show a full solution on lined paper

What did the carpenters call their Bass Quartet?
Simplify each expression. Assume that no divisor equals zero. Find your answer in the set of answers under the exercise and cross out the box above it. When you finish, the answer to the title question will remain.

$2x - 7$	A	(5) $\frac{6x + 9}{2x^3 - 7x^2}$
$3x + 5$	4	(4) $\frac{12x^2 + 20x}{20x^3 + 5x^2}$
$4x^2 + 5$	T	(3) $\frac{18x^2 - 50}{4x}$
$2x + 3$	O	(2) $\frac{2}{18x^2 - 50}$
$4x^2 + x$	S	(1) $\frac{3}{6x + 9}$
$3x - 25$	H	
$9x^2 - 25$	N	
$4v^3 - 7uv^2$	N	(10) $\frac{12v^5 - 27v^4}{-10u^3v^2 + 5u^2v^5}$
$2uv - 5v$	E	(9) $\frac{8uv^4 - 14u^2v^3}{2uv}$
$4v^3 - 9v^2$	B	(8) $\frac{u^2v + uv^2}{uv}$
$u + v$	8	(7) $\frac{30u^4 - 6u}{-6u}$
$4v^3 + 2v$	T	(6) $\frac{3v^2}{12v^5 - 27v^4}$
$2uv - v^4$	A	
$-5u^3 + 1$	L	
$2a^2 - a - 1$	U	
$3b^3 - 4ab - 1$	R	
$3b^3 + 2ab + 5a^3$	O	(15) $\frac{15a^5b^4 + 3a^4b^5 - 6a^3b^6}{3a^2b^3}$
$-a^2 - 4ab + 1$	B	(14) $\frac{45a^2b^4 - 60a^3b^2 - 15a^2b}{15a^2b}$
$2a^2 + a - 6$	E	(13) $\frac{2a^3b - 6a^2b^2 + 16ab^3}{-2ab}$
$3b^3 - 3ab - 8b^2$	A	(12) $\frac{21ab^3 + 14a^2b + 35a^4}{7a}$
$5a^3b + a^2b^2 - 2ab^3$	S	(11) $\frac{8a^3 + 4a^2 - 24a}{4a}$
$5a^3b + a^2b^3 - 4ab^2$	4	
$-a^2 + 3ab - 8b^2$	N	