

FMP10
XXX 3.1

Write down answers (on sheet or separate) + solve puzzles.

What Did Orgo Say While Visiting The North Pole?

Simplify each expression and find your answers at the bottom of the page. Shade out the letter above each correct answer. When you finish, the answer to the title question will remain!

① $-4x + 9x$

② $6y - 8y$

③ $-7x + x$

④ $9y - y$

⑤ $-5x - 5x$

⑥ $3y - 7y$

⑦ $-x - 8x + 7$

⑧ $y - 2y - 3$

⑨ $5 + 5x - 4x$

⑩ $3y - 6 + 7y - 4y$

⑪ $-9x - 5 - 8 + x$

⑫ $6 - y + 5y - 6y$

⑬ $3x - 8y + 2x - 5 - 5y$

⑭ $-9x + 3 + 2x - 9y - 8$

⑮ $5 + 6x - 3y + x + 8y$

⑯ $-4x - 4 + x - 2y + 7x$

⑰ $-8x + 7y - x - 6y + 4x$

⑱ $x + 5 - 2x + 3y - y$

⑲ $9x - 3y + 7 - 4x + y - 3$

⑳ $-x - 3 + 5x + 6y + 8x - 9$

㉑ $4x - 4 - 8y + 8 - 5x + 1$

㉒ $3x - x + 6y - 4x - y$

㉓ $2x + 2y - x - y - 7 + 5y$

㉔ $6x - 8x - 4y - x + 5y - 2y$

F	E	B	R	U	A	R	Y	2	2	I	S	A	H	O	L	I	D	A	Y	B	Y	G	E	O	R	G	E
$x + 6y - 7$	$-2x + 5y$	$-3x + 6y$	$x + 5y - 6$	$-8x - 13$	$-3x - y$	$7x + 2y$	$4x - 2y - 4$	$-9x + 7$	$-x - 8y + 5$	$-x + 2y + 5$	$-7x - 9y - 5$	$-y - 3$	$8y$	$5x - 2y + 4$	$5x - 13y - 5$	$5x$	$-5x + y$	$-6x$	$x + 5$	$-2y + 6$	$-4y$	$12x + 6y - 12$	$-10x$	$-2y$	$-x - 8y - 3$	$6y - 6$	$7x + 5y + 5$

Why Is It Good To Play Cards In A Graveyard?

Simplify any expression below. Find your answer in the answer column and notice the letter next to it. Write the letter in each box at the bottom of the page that contains the number of that exercise.

KEEP WORKING AND YOU WILL DISCOVER THE ANSWER TO THE TITLE QUESTION!

$$\textcircled{1} 6x^2 - 2x + 5x - 3$$

$$\textcircled{2} 5 - 7x^2 + 3x + 4x^2$$

$$\textcircled{3} 9x^2 + 2x + 5 - 5x^2 + 8x - 6$$

$$\textcircled{4} -4x - 4 + 6x^2 + x - 9x^2 - 8$$

$$\textcircled{5} -5x^2 + 6 + x^2 - 1 + 5x^2$$

$$\textcircled{6} -3 + 8x^2 - x + 8 + 7x^2 + 2x$$

$$\textcircled{7} 4x - 3x^2 + 9x + 4x^2 - 6x$$

$$\textcircled{8} -2x^2 - 9 - 3x - 2x^2 + 8x + 7$$

$$\textcircled{9} 3x^3 + 7x^2 - 9x - x^3 + 3x^2 + 6x$$

$$\textcircled{10} -9x^3 - x^2 + 5x - 4 - 2x^3 + 8x^2 - 6x + 6$$

$$\textcircled{11} 3 - 4x - 7x^2 + 4x^3 - 2 - 8x - 7x^2 - x^3$$

$$\textcircled{12} -4x^3 + 3x^2 - 5x - 7x^3 - 3x^2 + 2x - 9$$

$$\textcircled{13} 6x - 7 + 8x^3 - 4x - 6x^3 - 1 - 8x + 5$$

$$\textcircled{14} -7x^2 - 4x - 7 + x^2 - 5x^2 + x^3 + 8x - 2x^3$$

$$\textcircled{15} 6x^2 + 2x^4 - 9x^3 - 6x^2 + 2 - 5x^4 + x^3 - x$$

$$\textcircled{16} -3 - 3x^4 + 2x^2 - 1 + 7x^4 + x^3 - 6x^2 - 2x^4$$

$$\textcircled{17} -5x^4 - x^2 + 8x^3 + 4x + 2x^4 - x^3 + x^2$$

$$\textcircled{U} -3x^4 - 8x^3 - x + 2$$

$$\textcircled{T} x^2 + 5$$

$$\textcircled{G} 2x^3 - 6x - 3$$

$$\textcircled{R} 2x^3 + 10x^2 - 3x$$

$$\textcircled{H} 6x^2 + 4x - 2$$

$$\textcircled{S} 6x^2 + 3x - 3$$

$$\textcircled{V} -3x^4 - 8x^3 - 5x$$

$$\textcircled{O} -4x^2 + 5x - 2$$

$$\textcircled{X} 3x^3 - 14x^2 - 12x + 1$$

$$\textcircled{D} -3x^4 + 7x^3 + 4x$$

$$\textcircled{W} -3x^2 - 3x - 12$$

$$\textcircled{N} -3x^2 + 3x + 5$$

$$\textcircled{A} 2x^4 + x^3 - 4x^2 - 4$$

$$\textcircled{M} -x^3 - 11x^2 + 2x - 6$$

$$\textcircled{E} -x^3 - 11x^2 + 4x - 7$$

$$\textcircled{C} 15x^2 + x + 5$$

$$\textcircled{L} -11x^3 - 3x - 9$$

$$\textcircled{Y} -11x^3 + 7x^2 - x + 2$$

$$\textcircled{P} 4x^2 + 10x - 1$$

$$\textcircled{i} x^2 + 7x$$

10	8	15	6	16	2	16	12	4	16	10	1	17	7	13
15	3	16	2	14	11	5	9	16	3	12	16	10	14	9

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:

- ⑥ $-24n^4 - 54n$
- ⑦ $24n^3 - 4n$
- ⑧ $-24n^4 + 54n^2$
- ⑨ $4n^3 - 3n^2$
- ⑩ $10n^2 + 5n$
- ⑪ $24n^3 - 6n^2$
- ⑫ $-8n - 6n^3$
- ⑬ $-8n - 10n^4$

- ⑭ $4a(a^2 - 2a + 3)$
- ⑮ $-2a^2(9 - a - 4a^2)$
- ⑯ $a^2b(a^2 - b^2)$
- ⑰ $-3ab^2(a^3b^2 - 2a^2b)$
- ⑱ $2ab(a^2 + 4ab - 3b^2)$

Answers:

- ⑲ $4a^3 - 8a^2 + 10$
- ⑳ $-18a^2 + 2a^3 + 8a^4$
- ㉑ $2a^3b + 8a^2b^2 - 6ab^3$
- ㉒ $2a^3b + 8ab^2 - 4ab$
- ㉓ $a^4b - a^2b^3$
- ㉔ $4a^3 - 8a^2 + 12a$
- ㉕ $-18a^2 + 2a^3 + 6a^5$
- ㉖ $-3a^4b^4 + 6a^3b^3$

- ㉗ $x^2y(2x^2 - 4xy + y^2)$
- ㉘ $-2xy^2(2x^4 - 5x^2y^2 - 3y^4)$
- ㉙ $4x^3y(-x^2y + 2xy - 5xy^2)$
- ㉚ $-x^2y^3(7xy^3 - x^2y^2 + 3x^3y)$
- ㉛ $3x^2y^2(2x^4y^2 - 3x^2y - 1)$

Answers:

- ㉜ $-4x^5y^2 + 10x^3y^4 + 6xy^6$
- ㉝ $2x^4y - 4x^2y^3 + x^2y^4$
- ㉞ $-4x^5y^2 + 8x^4y^2 - 20x^4y^3$
- ㉟ $-4x^5y^2 + 10x^2y^4 - 20x^2y^3$
- ㊱ $2x^4y - 4x^3y^2 + x^2y^3$
- ㊲ $6x^6y^4 - 9x^4y^3 - 3x^2y^2$
- ㊳ $-7x^3y^6 + x^5y^4 - 3x^3y^4$
- ㊴ $-7x^3y^6 + x^4y^5 - 3x^5y^4$

7	10	1	5	13	4	9	2	11	8	15	3	12	6	14
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What Should You **NOT** Do If You Want to Help Get Rid of Graffiti?

Simplify each expression below. Find your answer in the answer column and notice the letter next to it. Write this letter in the box at the bottom of the page that contains the number of that exercise.



- ① $6x + (5x - 8)$
- ② $2x - (9x - 4)$
- ③ $-9 - (12 - 3x)$
- ④ $-(5x + 5) - 4 + 8x$
- ⑤ $7(2x - 4) - (10 - 3x)$
- ⑥ $-6(5 + x) + (13x + 1)$
- ⑦ $-(12 - 4x) + 8(10 - x)$
- ⑧ $7(2x + 2) - 9(-1 + 6x)$
- ⑨ $4(-3x - 5) - (10 + 4x)$
- ⑩ $6x + (14x - 5) + (17 - 3x)$
- ⑪ $-(2 - x) - 3(6 + 8x) - 12$
- ⑫ $(4x - 9) + 8(2x + 3) - 7x$
- ⑬ $11 - (3x - 6) + 2(4x + 5) - x$
- ⑭ $(x + 2) - (x - 2) - 12x$

Answers:

- (A) $-40x + 23$
- (S) $3x - 21$
- (L) $-12x - 9$
- (I) $-16x - 30$
- (N) $7x - 29$
- (T) $-12x + 4$
- (P) $-23x - 32$
- (R) $4x + 27$
- (A) $11x - 8$
- (S) $4x + 13$
- (O) $3x - 9$
- (T) $-4x + 68$
- (I) $-7x + 4$
- (A) $13x + 3$
- (N) $17x + 12$
- (I) $13x + 15$
- (G) $17x - 38$



3	12	5	10	8	11	1	13	7	9	14	2	4	6
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OBJECTIVE 3-d: To simplify expressions that require adding or subtracting a binomial.