

Why Couldn't the Chicken Find Her Egg?



Simplify each expression and find your answer below. Cross out the box containing your answer. When you finish, there will be six boxes not crossed out. Print the letters from these boxes in the squares at the bottom of the page.

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|-------------------------|-----------------------|---------------------------------|
| ① $(4x^2y)(2xy^2)$ | ⑦ $(4xy^2)(x^3y)^2$ | ⑬ $(-1)^3(5x^2y)^3$ |
| ② $x^2(3xy)(xy^4)$ | ⑧ $(-x^4y)(3xy^3)^2$ | ⑭ $(2x)^4(-x^2)(-y)^2$ |
| ③ $(-4x^3y)(x^2y^2)(y)$ | ⑨ $(5x^2y)^2(2xy^3)$ | ⑮ $(-3x^2y^2)(-3xy)^2$ |
| ④ $(5xy^3)^2$ | ⑩ $(-xy)^2(-xy^2)$ | ⑯ $(7x^6y^4)(x^3y^2)^2$ |
| ⑤ $(-3x^2y)^3$ | ⑪ $3(x^2y)^2(xy^2)^4$ | ⑰ $7x^6y^4 + (x^3y^2)^2$ |
| ⑥ $(6x^2)(2x)^3$ | ⑫ $(-2x^2)^3(-y)^5$ | ⑱ $x^2(xy^3)^2 + y^2(x^2y^2)^2$ |

IT	TH	SH	EL	EE	OW	EM	IX
$-4x^5y^4$	$7x^{12}y^8$	$7x^{10}y^9$	$-x^3y^4$	$2x^4y^6$	$8x^3y^3$	$16x^4y^3$	$3x^8y^{10}$
GG	IS	OS	YO	AT	LK	LA	TE
$8x^6y^4$	$-4x^6y^3$	$50x^5y^5$	$48x^5$	$8x^6y^5$	$4x^7y^4$	$4x^6y^6$	$-125x^6y^3$
SD	TH	ID	LO	QU	IT	ST	EN
$25x^2y^6$	$-9x^6y^7$	$-x^5y^8$	$-27x^4y^4$	$3x^4y^5$	$3x^7y^{12}$	$-16x^6y^2$	$-27x^6y^3$

What Did the Martian Say When He Accidentally Landed on Venus ?

Find the simplest form for each expression in the corresponding answer column. (Some of the expressions cannot be simplified.) Write the letter of the exercise in the box containing the number of your answer.

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| <p>(T) $5x^2 + 2x^2 - 3x^2$</p> <p>(N) $(5x^2)(2x^2)(-3x^2)$</p> <p>(S) $4x^3 + x^2 + 4x$</p> <p>(I) $(4x^3)(x^2)(4x)$</p> <p>(L) $-3x^3 + 5x^2 - 3x^3$</p> <p>(A) $(-3x^3)(5x^2)(-3x^3)$</p> <p>(E) $3x + 2y$</p> <p>(T) $(3x)(2y)$</p> <p>(Y) $7xy^2 - 2xy^2$</p> <p>(D) $(7xy^2)(-2xy^2)$</p> <p>(I) $7x^2y - 2xy^2$</p> <p>(A) $(7x^2y)(-2xy^2)$</p> | <p>(19) $5xy^2$</p> <p>(1) $16x^6$</p> <p>(11) $3x + 2y$</p> <p>(15) $7x^2y - 2xy^2$</p> <p>(13) $4x^2$</p> <p>(16) $4x^3 + x^2 + 4x$</p> <p>(18) $45x^8$</p> <p>(9) $-14x^3y^3$</p> <p>(5) $-30x^6$</p> <p>(2) $-14x^2y^4$</p> <p>(6) $6xy$</p> <p>(8) $-6x^3 + 5x^2$</p> |
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- | | |
|--|---|
| <p>(I) $(3a)(a^2)(a^3) + (2a^2)(a^4)$</p> <p>(T) $(a^4)(5a)(a^2) + (-4a^3)(2a^3)(a)$</p> <p>(W) $(2a^3)(a^2)(3a^2) + (8a^2)(-a^2)(a)$</p> <p>(D) $(5a^2)(2ab) + (a^2b)(3a)$</p> <p>(H) $(2ab^2)(-2a^2b^2) - (ab^3)(6a^2b)$</p> <p>(N) $(-a^2b)(ab^2)(a^2b^2) + (a^3b^2)(-a^2b^3)$</p> <p>(P) $(4a^2b^2)(-3b^3) - (2ab^2)(-6ab^3)$</p> | <p>(10) $-2a^5b^5$</p> <p>(4) $13a^3b$</p> <p>(12) $-3a^7$</p> <p>(7) 0</p> <p>(14) $-10a^3b^4$</p> <p>(3) $5a^6$</p> <p>(17) $6a^7 - 8a^5$</p> |
|--|---|

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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