KEY

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.

(T)	$5x^2 + 2x^2 - 3x^2 = 4x^2$	Y (19)	$5xy^2$
(N)	$(5x^2)(2x^2)(-3x^2) = -30x^6$	I (1)	$16x^6$
(S)	$4x^3 + x^2 + 4x = 4x^3 + x^2 + 4x$	E (11)	$3x + 2y$
(I)	$(4x^3)(x^2)(4x) = 16x^6$	I (15)	$7x^2y - 2xy^2$
(L)	$-3x^3 + 5x^2 - 3x^3 = -6x^3 + 5x^2$	T (13)	$4x^2$
(A)	$(-3x^3)(5x^2)(-3x^3) = 45x^8$	S (16)	$4x^3 + x^2 + 4x$
(E)	$3x + 2y = 3x + 2y$	A (18)	$45x^8$
(T)	$(3x)(2y) = 6xy$	A (9)	$-14x^3y^3$
(Y)	$7xy^2 - 2xy^2 = 5xy^2$	N (5)	$-30x^6$
(D)	$(7xy^2)(-2xy^2) = -14x^2y^4$	D (2)	$-14x^2y^4$
(I)	$7x^2y - 2xy^2 = 7x^2y - 2xy^2$	T (6)	$6xy$
(A)	$(7x^2y)(-2xy^2) = -14x^3y^3$	L (8)	$-6x^3 + 5x^2$

(I)	$(3a)(a^2)(a^3) + (2a^2)(a^4) = 3a^6 + 2a^6 = 5a^6$	N (10)	$-2a^5b^5$
(T)	$(a^4)(5a)(a^2) + (-4a^3)(2a^3)(a) = 5a^7 + (-8a^7) = -3a^7$	P (4)	$13a^3b$
(W)	$(2a^3)(a^2)(3a^2) + (8a^2)(-a^2)(a) = 6a^7 + (-8a^5)$	T (12)	$-3a^7$
(D)	$(5a^2)(2ab) + (a^2b)(3a) = 10a^3b + 3a^3b = 13a^3b$	P (7)	0
(H)	$(2ab^2)(-2a^2b^2) - (ab^3)(6a^2b) = -4a^3b^4 - 6a^3b^4$	H (14)	$-10a^3b^4$
(N)	$(-a^2b)(ab^2)(a^2b^2) + (a^3b^2)(-a^2b^3)$ $= -a^5b^5 + (-a^5b^5)$	I (3)	$5a^6$
(P)	$(4a^2b^2)(-3b^3) - (2ab^2)(-6ab^3)$ $= -12a^2b^5 + 12a^2b^5 = 0$	W (17)	$6a^7 - 8a^5$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
I	D	I	D	N	T	P	L	A	N	E	T	T	H	I	S	W	A	Y

What Did They Say About the Man Who Drank Shellac?

Do each exercise below and find your answer in the set of answers to the right of that exercise. Write the letter of your answer in the box containing the number of that exercise.

H (1) $(x+4)(x+2)$ $=x^2+6x+8$
E (2) $(x+7)(x+1)$ $=x^2+8x+7$
H (3) $(x-6)(x-3)$ $=x^2-9x+18$
A (4) $(x+8)(x-2)$ $=x^2+6x-16$
D (5) $(x-7)(x+4)$ $=x^2-3x-28$
A (6) $(x-2)(x-9)$ $=x^2-11x+18$

(H) $x^2-9x+18$
(A) $x^2-11x+18$
(S) $x^2-5x-28$
(H) x^2+6x+8
(A) $x^2+6x-16$
(N) x^2+4x+7
(E) x^2+8x+7
(D) $x^2-3x-28$
(R) $x^2-2x+18$
(L) $x^2+3x-16$

L (7) $(2u+4)(u+1)$ $=2u^2+6u+4$
O (8) $(3u+7)(u-3)$ $=3u^2-2u-21$
V (9) $(4u-2)(5u-1)$ $=20u^2-14u+2$
E (10) $(2u+1)(9u-5)$ $=18u^2-u-5$
L (11) $(7u-4)(3u+6)$ $=21u^2+30u-24$
Y (12) $(5u-8)(4u-4)$ $=20u^2-52u+32$

(L) $21u^2+30u-24$
(V) $20u^2-14u+2$
(U) $3u^2+u-21$
(O) $3u^2-2u-21$
(T) $18u^2+2u-5$
(L) $2u^2+6u+4$
(S) $21u^2+23u-24$
(Y) $20u^2-52u+32$
(E) $18u^2-u-5$
(N) $20u^2-41u+32$

F (13) $(2x+y)(x+3y)$ $=2x^2+7xy+3y^2$
I (14) $(3x-y)(8x-y)$ $=24x^2-11y^2+y^2$
N (15) $(2x+y)(4x-3y)$ $=8x^2-2xy-3y^2$
I (16) $(5x-2y)(3x+4y)$ $=15x^2+14xy-8y^2$
S (17) $(7x+3y)(x+2y)$ $=7x^2+17xy+6y^2$
H (18) $(6x+6y)(2x-4y)$ $=12x^2-12xy-24y^2$

(E) $8x^2+xy-3y^2$
(N) $8x^2-2xy-3y^2$
(F) $2x^2+7xy+3y^2$
(R) $7x^2+8xy+6y^2$
(I) $24x^2-11xy+y^2$
(T) $12x^2-9xy-24y^2$
(H) $12x^2-12xy-24y^2$
(A) $15x^2+9xy-8y^2$
(S) $7x^2+17xy+6y^2$
(I) $15x^2+14xy-8y^2$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H	E	H	A	D	A	L	O	V	E	L	Y	F	I	N	I	S	H