

How Does a Rodeo Star Get Around?

First, SIMPLIFY each expression below. Then EVALUATE the expression for the given value of the variable. Find the simplified expression in the answer column and notice the letter next to it. Find the value of the expression at the bottom of the page and write this letter below it.

** Show all work properly on separate sheet.*

① $8(2x - 3) - 6x$ if $x = 3$

② $9 - 2(4x + 5)$ if $x = -4$

③ $-7x - 3(9 - 7x)$ if $x = -1$

④ $6(3x - 1) - 10x$ if $x = 7$

⑤ $7 - 4x + 2(5x + 8)$ if $x = -2$

⑥ $7x - 4(6 - x) + 12$ if $x = 6$

⑦ $-3(4x - 1) + 9x + 8x$ if $x = -9$

⑧ $10 - (2y - 6) - y$ if $y = 8$

⑨ $4(3 + 7y) + 6(2 - y)$ if $y = 2$

⑩ $9(2y - 4) - 2(7y - 12)$ if $y = -9$

⑪ $5(-3y - 1) - (6 - 5y)$ if $y = -6$

⑫ $2(7 + 6y) + 15(-1 + y)$ if $y = 1$

⑬ $(-9y + 5) - 8(-y - 2)$ if $y = -3$

⑭ $-(5y - 6) + 4(3 + 5y)$ if $y = 2$

Ⓐ $5x + 3$

Ⓙ $-10y - 11$

Ⓛ $-y + 21$

Ⓣ $14x - 27$

Ⓢ $13y + 15$

Ⓒ $27y - 1$

Ⓔ $10x - 24$

Ⓦ $22y + 24$

Ⓜ $6x + 23$

Ⓒ $15y + 18$

Ⓙ $-3y + 16$

Ⓐ $-8x - 1$

Ⓙ $11x - 12$

Ⓕ $4y - 12$

Ⓐ $8x - 6$

68	11	54	-48	50	26	31	49	-8	24	6	-42	48	-41
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What Did the Electrician Say After Fixing a Light Bulb at the Top of the Empire State Building?

*write down answers
on separate
sheet*

Translate any phrase below into algebraic terms and find your answer in the corresponding answer column. Write the letter of the exercise in the box that contains the number of the answer. Keep working and you will discover the answer to the title question.

F	5 more than 2 times a number	27	$5x - 2$	W	2 times a number, increased by 8	8	$3(x + 8)$
H	7 less than 5 times a number	11	$7x + 2$	I	2 times the sum of a number and 8	28	$3(2x + 8)$
E	5 times a number, decreased by 2	22	$2 + 5x$	A	3 more than 8 times a number	10	$2(x + 8)$
I	2 diminished by 7 times a number	19	$2x + 5$	G	8 times the sum of a number and 3	24	$8x + 3$
S	2 increased by 5 times a number	6	$2x - 7$	E	3 times the sum of a number and 8	3	$2x + 8$
T	twice a number, decreased by 7	7	$5x - 7$	H	two-thirds of a number	15	$8(x + 3)$
G	2 more than 7 times a number	14	$2 - 7x$	R	3 times the sum of twice a number and 8	20	$\frac{2}{3}x$

A	9 less than a number	16	$9x + 4x$	I	10 meters higher than height x	23	$x - 50$
I	4 times a number, plus 9	4	$x - 9$	L	10 mph slower than speed x	1	$x + 10$
T	9 diminished by 4 times a number	2	$9 - 4x$	C	50 meters deeper than depth x	12	$6x - 2$
O	one-fourth of a number	5	$9x - 4$	H	50 mph faster than speed x	25	$2x + 6$
S	9 times a number, decreased by 4	26	$9x + 4$	T	6 meters less than twice length x	17	$2x - 6$
E	4 more than 9 times a number	21	$4x + 9$	R	6 years older than twice age x	13	$x - 10$
H	9 times a number, increased by 4 times the number	18	$\frac{x}{4}$	H	2 years younger than 6 times age x	9	$x + 50$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28