Name This Turvy – Answer Key

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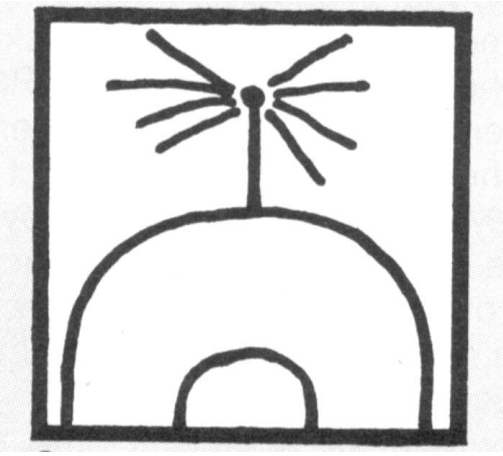

RIGHT-SIDE-UP TITLE:

Radio Alaska

UPSIDE-DOWN TITLE:

Spider Towing A Cheerio

D 1. Name the axiom: $-18 + 18 = 0$

L 2. The number of subsets of {a, c, d, v, r, w}

K 3. Determine the value of $f(-3)$ if $f(x) = x^2 - 2x + 5$

T 4. Determine the slope of a line passing through $(-2, 3)$ and $(4 - 9)$

P 5. Simplify $-4[5 - (-6 - 5 + 2)]$

W 6. Two trains started from the same place at the same time and traveled in opposite directions at rates which differed by 20 m.p.h. In 5 hours, they were 500 miles apart. Determine the rate of the faster train in miles per hour.

H 7. Write the equation of the line which has y-intercept -2 and is perpendicular to the line $x + 2y = 7$.

G 8. Solve $\frac{7w}{3} + 8 = 22$ for w.

N 9. Solve $4(7 - 3x) + 2x = -2 - 5(2x - 6)$ for x.

E 10. What polynomial must be added to $4y^5 + 3x^2 - 2y$ to obtain $y^5 - 1$?

C 11. Simplify $(-5)(-2)(1)(2)(-3)$

R 12. Solve the following system of equations

$$x + 5y = 19$$
$$3x - 2y = -11$$

to determine the value of x.

A 13. Winchester Florists sells long-stemmed roses at 1 for \$2.00 or 4 for \$6.00. On Miss Pea's birthday, there were 46 roses sold and \$76.00 collected. How many single long-stemmed roses were sold?

S 14. Determine the value of $\begin{vmatrix} 3 & 2 \\ 6k & 4k \end{vmatrix} + \begin{vmatrix} -3 & -5 \\ 2 & -1 \end{vmatrix}$

O 15. In which quadrant does the point $(4, -1)$ lie?

I 16. Solve the following system to determine the value of y:

$$x - 3y + 2z = 2$$
$$2y - z = 1$$
$$2x + y + 4z = 4$$

A. 14
B. Additive Identity
C. -60
D. Additive Inverse
E. $-1 + 2y - 3x^2 - 3y^5$
F. $y = -x - 2$
G. 6
H. $y = 2x - 2$
I. 0
J. 63
K. 20
L. 64
M. 2
N. {all reals}
O. 4
P. -56
Q. ϕ
R. -1
S. 13
T. -2
U. $5y^5 - 3x^2 + 2y - 1$
V. $5y^5 - 3x^2 - 2y - 1$
W. 60
X. $24k - 7$
Y. 19
Z. None of the above