

DOUBLE CROSS

1. What do you get when you cross a porcupine with a gopher?

20 0 22 81 81 62 1 7 32 0 60 1 62 20 24 26

2. What do you get when you cross a pelican with a lightning bolt?

20 100 32 8 62 1 62 90 0 5 32 90 100 32 1 1



TO DECODE THE ANSWERS TO THESE TWO QUESTIONS:

Evaluate each expression below using the values

$a = 1, b = 2, c = 3, w = 0, x = 10,$ and $y = 6.$

** show all work
on separate
sheet.*

Each time your answer appears in the code, write the letter of that exercise above it.



- (H) xy
- (A) $b + (cy)$
- (W) $x - (ac)$
- (S) $(7b) + (4c)$
- (E) $(8x) - (3y)$
- (U) $(ax) + (by)$
- (B) $(2x) \cdot (b + c)$
- (G) $\frac{(x + y)}{(c - a)}$

- (R) $\frac{(xy)}{(x + b)}$
- (T) $\frac{(wa)}{b}$
- (K) $(x - y) \cdot (y - w)$
- (N) $c \cdot (y + c) \cdot (y - c)$
- (C) $\frac{(3x)}{b} \cdot (abc)$
- (I) $(8bc) - (w + x + y)$
- (L) $\frac{(x - b)}{(y + b)}$

Why Did the Cow Keep Jumping Over the Barrel?

Translate each phrase below into an algebraic expression and find your answer in the corresponding answer column. *Write down answers on sheet or separate paper.*
Write the letter of that exercise in the box that contains the number of the answer.

- (E) 3 times a number (18) $x + 3$
 (O) 3 more than a number (15) $3x - 8$
 (S) 3 decreased by a number (19) $x - 3$
 (R) 3 less than a number (12) $3x + 8$
 (A) one third of a number (3) $3x$
 (I) 8 more than 3 times a number (25) $3 - x$
 (N) 8 less than 3 times a number (5) $\frac{x}{3}$

- (S) 5 times a number, increased by 8 (22) $8(x + 5)$
 (A) 5 times the sum of a number and 8 (4) $8(2x + 5)$
 (H) 5 more than 8 times a number (2) $8x + 5$
 (O) 8 times the sum of a number and 5 (13) $2(5x + 8)$
 (C) twice the sum of 5 times a number and 8 (6) $5x + 8$
 (T) 2 more than five eighths of a number (20) $5(x + 8)$
 (W) 8 times the sum of twice a number and 5 (11) $\frac{5}{8}x + 2$

- (A) 7 less than 4 times a number (1) $7 - 4x$
 (S) 7 decreased by 4 times a number (16) $2x - 9$
 (G) 9 less than twice a number (14) $7x + 4$
 (N) 9 decreased by twice a number (9) $4x - 7$
 (O) 9 less than half a number (8) $7x + 4x$
 (I) 7 times a number, increased by 4 (24) $9 - 2x$
 (R) 7 times a number, increased by 4 times the number (27) $\frac{x}{2} - 9$

- (T) 9 meters higher than altitude x (7) $x + 15$
 (F) 15 meters per second slower than speed x (28) $x + 9$
 (P) 15°C hotter than temperature x (26) $4x - 9$
 (O) 9 meters shorter than twice length x (23) $2x - 9$
 (C) 9 years older than twice age x (10) $2x + 9$
 (H) \$9 cheaper than 4 times price x (17) $x - 15$
 (M) 9 centimeters less than three fourths of length x (21) $\frac{3}{4}x - 9$

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
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