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 $y = 6$.

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) $\dfrac{(x + y)}{(c - a)}$

(R) $\dfrac{(xy)}{(x + b)}$

(T) $\dfrac{(wa)}{b}$

(K) $(x - y) \cdot (y - w)$

(N) $c \cdot (y + c) \cdot (y - c)$

(C) $\dfrac{(3x)}{b} \cdot (abc)$

(I) $(8bc) - (w + x + y)$

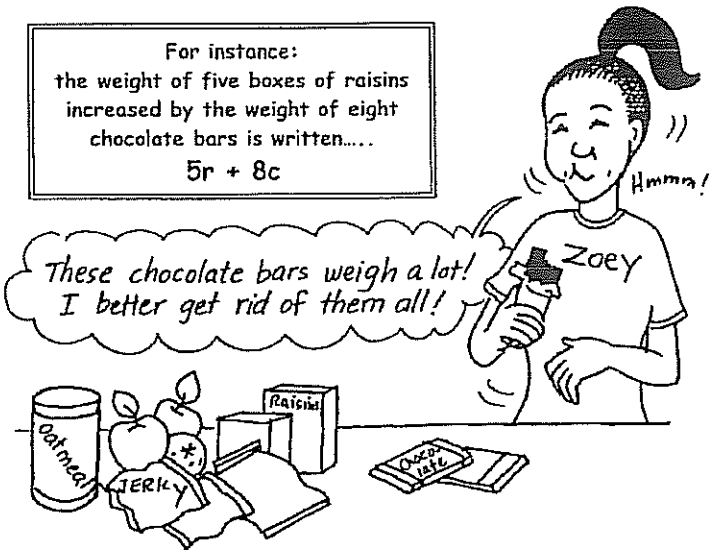
(L) $\dfrac{(x - b)}{(y + b)}$

OBJECTIVE 1–a: To evaluate variable expressions.

EXPRESSIONS WITH TASTE

No hiker wants a back-breaking pack, so it's important to pay attention to weight while the supplies are gathered for the pack. These food items have weights (in ounces) that are represented by letter symbols.

For instance:
the weight of five boxes of raisins increased by the weight of eight chocolate bars is written.....
$5r + 8c$



CAMPING FOOD

weight in ounces	*food*
m	maple oatmeal
n	noodle packs
s	cans of stew
a	apples
h	hot chocolate packs
r	boxes of raisins
c	chocolate bars
g	bags of gorp
f	fruit leather sticks
b	bread rolls
j	jerky sticks
p	power bars

Use the letter symbols to write mathematical expressions about the food weights.

Write an expression to show the weight of . . .

1. 1 bag of oatmeal increased by 3 ounces: _____
2. 15 boxes of raisins decreased by 7 jerky sticks: _____
3. 4 power bars decreased by 2 packs of noodles: _____
4. 12 bags of gorp decreased by 4 bags of gorp: _____
5. 8 chocolate bars decreased by 5 ounces: _____
6. twice the sum of 2 bread rolls and 6 jerky sticks: _____
7. 3 times the difference between 2 stew cans and 5 fruit leather sticks: _____
8. 10 hot chocolate packets increased by 1 stew can and 2 power bars: _____
9. 2 apples weigh less than 3 power bars: _____
10. 5 times the weight of a bread roll and an apple: _____
11. the sum of ½ bag of raisins and ¼ bag of gorp: _____
12. ten times the product of bread and fruit leather: _____

Name _____