

Algebra 2

Snow Day Packet

Mrs. McCauley

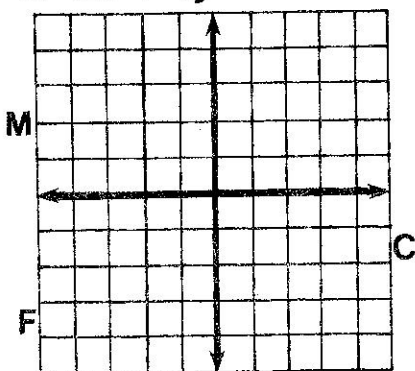
name: _____

- This packet contains work for FIVE Snow Packet Days.
- Complete one page per Snow Packet Day.
- The school closing announcement will specify if the day is a required Snow Packet Day or not.
- Mrs. McCauley is available to help you on Snow Packet Days.
- To reach Mrs. McCauley on Snow Packet Days:
 - Email srmccaul@k12.wv.us
 - Send a Livegrades message
 - Call the school at 304-636-9170 from 10 am to 2 pm
- Each Snow Day Assignment is a formal grade worth 10 points.
- For FULL CREDIT, show all your work NEATLY and use extra paper if needed.
- These assignments were carefully chosen to review topics for SAT/ACT prep.

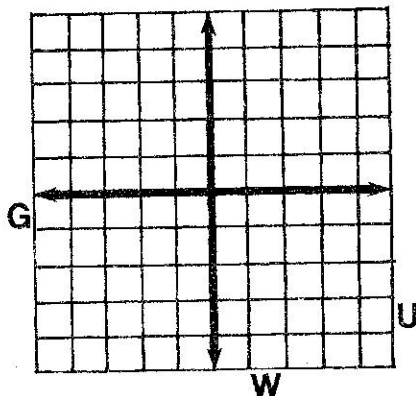
Snow Day #2 Show your work. Why Did Miss Muffet Need A Road Map?

Graph any equation below. (Let each space along the axes represent 1 unit.) The graph, if extended, will cross a letter. Look for this letter in the string of letters near the bottom of the page and CROSS IT OUT each time it appears. When you finish, write the letters that have NOT been crossed out in the rectangle at the bottom of the page.

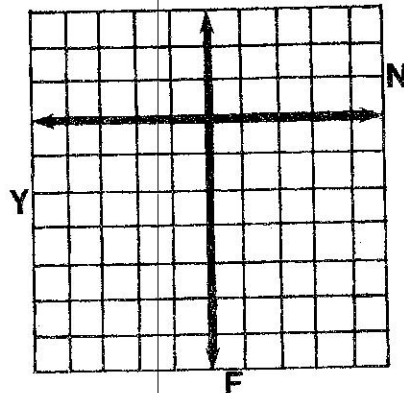
① $2x + 3y = 6$



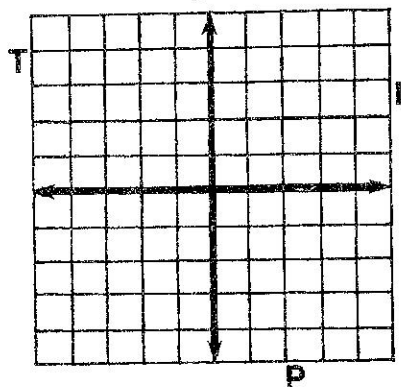
② $-x + 2y = 4$



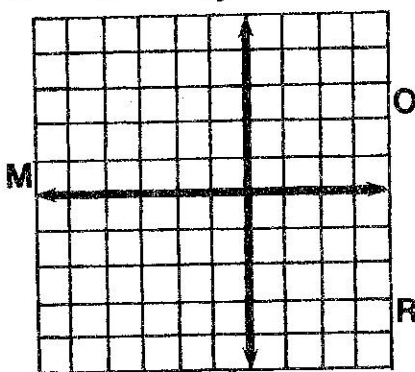
③ $3x + y = -6$



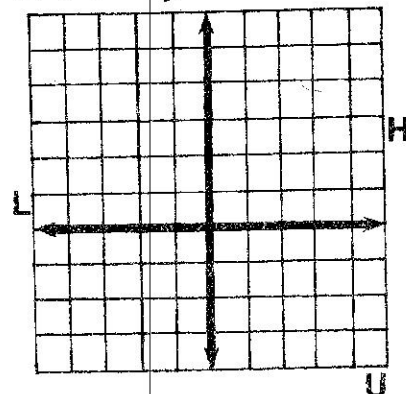
④ $4x - 3y = 12$



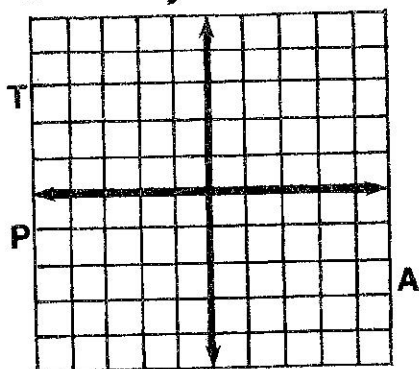
⑤ $-3x - 5y = 15$



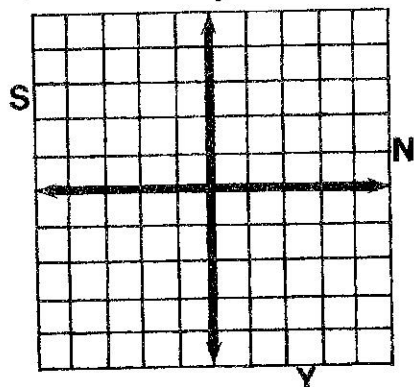
⑥ $2x + y = 5$



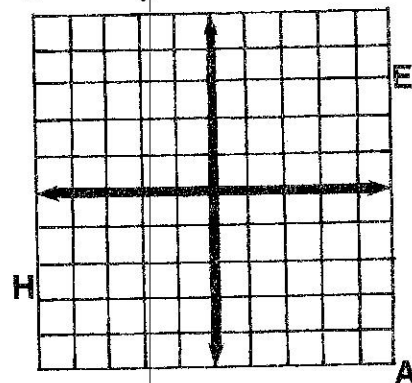
⑦ $x - 2y = -3$



⑧ $-3x + 5y = -10$



⑨ $x + y = 0$



PUSHAPNELAGONFSANTMCHIMEAPCRAWNGIFPHEANIYUN

ANSWER:

Snow Day #3 Show your work.

What Is the Title of This Picture?

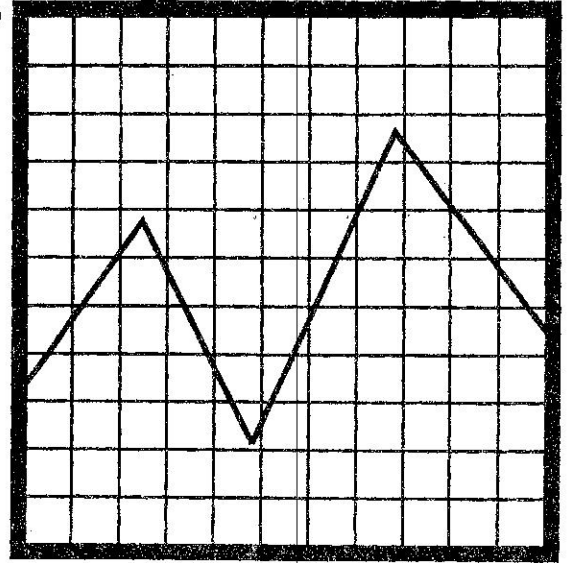
Find each solution in the coded title. Each time it appears, write the letter of the exercise above it.

CODED TITLE:

0 -7 -6 9 58 3 -2 9 13 -5 3 9 -8 27

-21 -2 27 10 27 4 51 58 -11 -5 -7 -6 -8 -11

58 27 9 9 -2 5 -17 -5 3 7 -1 27 58



S $7n + 2 = 4n + 17$

A $8y - 3 = 15 + 2y$

G $5x + 9 = x - 23$

D $-2k + 19 = 3k - 1$

I $7 - 6u = 5u + 29$

O $9m = 4m - 35$

C $5(x + 2) = 3(x + 8)$

W $6(t - 1) = 9(t - 4)$

U $q + 14 = 8(q + 7)$

H $10 - d = -34 - 5d$

V $8v + 1 = 7v - 20$

E $4(w - 6) = 3(w + 1)$

K $11p + 16 = 2p + 7$

M $10b - 45 = 3(b - 15)$

T $12(y + 5) = 13y + 2$

R Nine more than four times a number is the same as one less than twice the number. Find the number.

N Eighty, decreased by three times a number, is the same as five times the number, increased by eight. Find the number.

Snow Day #4 Show your work.

Did you hear about...

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O ?

DIRECTIONS:

Solve any inequality below. In the answer column, find the inequality that describes the solution set and notice the word next to it. Write this word in the box that has the same letter as that exercise.

KEEP WORKING AND YOU WILL HEAR ABOUT A COLLEGE EYE DEAL.

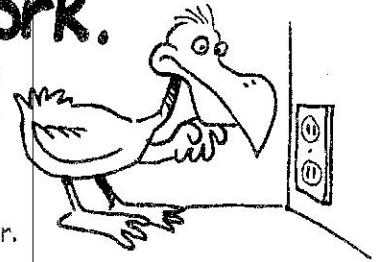


- (A) $2(3x - 5) > 2x + 6$
- (B) $8(2 + x) \leq 3x - 9$
- (C) $-3(4x - 6) < 7 - x$
- (D) $13x - 7(-2 + x) \geq 4x - 10$
- (E) $5(-3x - 1) + 7 \leq -x + 30$
- (F) $12 + 5x > 2(8x - 6) - 7x$
- (G) $9x - 2x \geq 14 - 9(-x - 4)$
- (H) $-4(3 - 5x) - 11x < 3x + 6$
- (I) $10(x + 2) > -2(6 - 9x)$
- (J) $7(2 + 2x) \geq 4(-x - 10)$
- (K) $11 + 3(-8 + 5x) < 16x - 5$
- (L) $-6(7x - 1) < -8x + 9(-3x - 4)$
- (M) $-9x + 2(4x + 12) \leq 4(1 - 3x) - 13$
- (N) $7(-x + 4) + 16 \geq 5x - (10x - 6) - 6$
- (O) $12(2x + 3) - 3(8 + 7x) > 0$

- $x < 6$ —WHO
- $x \leq -3$ —OVER
- $x < 4$ —HAVE
- $x \geq 22$ —STUDENTS
- $x \leq -5$ —CROSS
- $x \geq -12$ —COLLEGE
- $x \leq -2$ —EYES
- $x > 6$ —CONTROL
- $x > 4$ —THE
- $x < 1$ —KNOW
- $x < 3$ —TO
- $x \leq 22$ —HIS
- $x \geq -2$ —PROFESSOR
- $x \leq -25$ —SEEMED
- $x \geq -3$ —ABSOLUTELY
- $x \geq -25$ —SUBJECT
- $x > -8$ —NO
- $x > 1$ —EYED
- $x < -8$ —HELP
- $x > -4$ —PUPILS
- $x < -4$ —TEACH

Snow Day #5 Show your work.

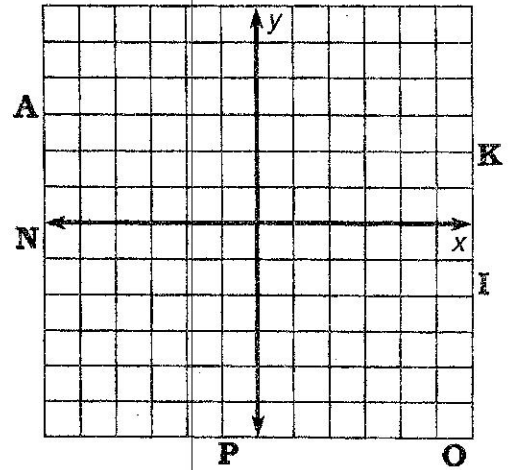
What Happened to the Pelican Who Stuck His Head Into a Wall Socket?



Graph each equation on the grid to its right. The graph will cross a letter outside the grid. Write this letter in each box containing the exercise number.

1 $-2x + 5y = 10$

2 $2x - 5y = 20$

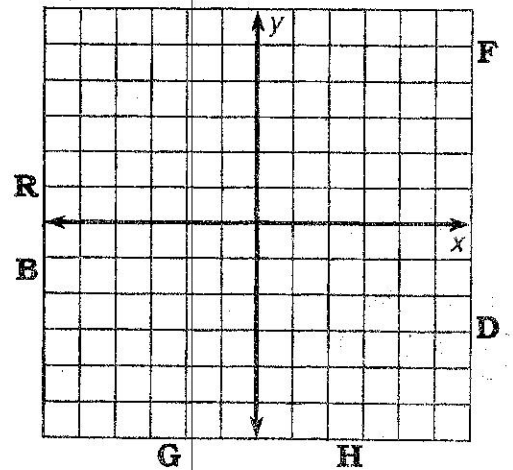


3 $4x + 3y = 3$

4 $-8x - 6y = 30$

5 $x - 6y = -12$

6 $15x + 5y = 10$

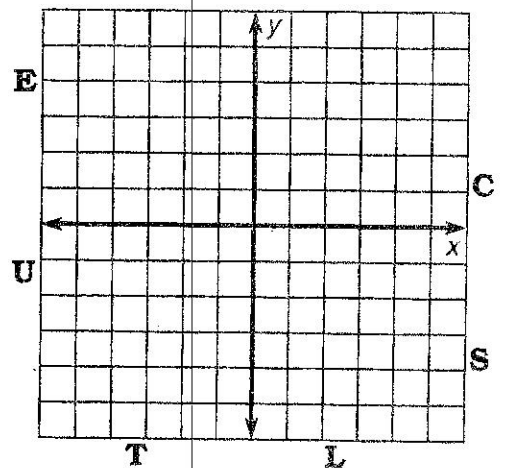


7 $8x + 20y = -80$

8 $9x - 9y = 36$

9 $2x - 3y - 9 = 0$

10 $3x + 2y + 6 = 0$



11 $2x - y = 0$

12 $y = 4$

6	12	8	3	11	4	1	12	10	12	9	11	5	2	9	7	2	10	10
---	----	---	---	----	---	---	----	----	----	---	----	---	---	---	---	---	----	----

*It was revolting!