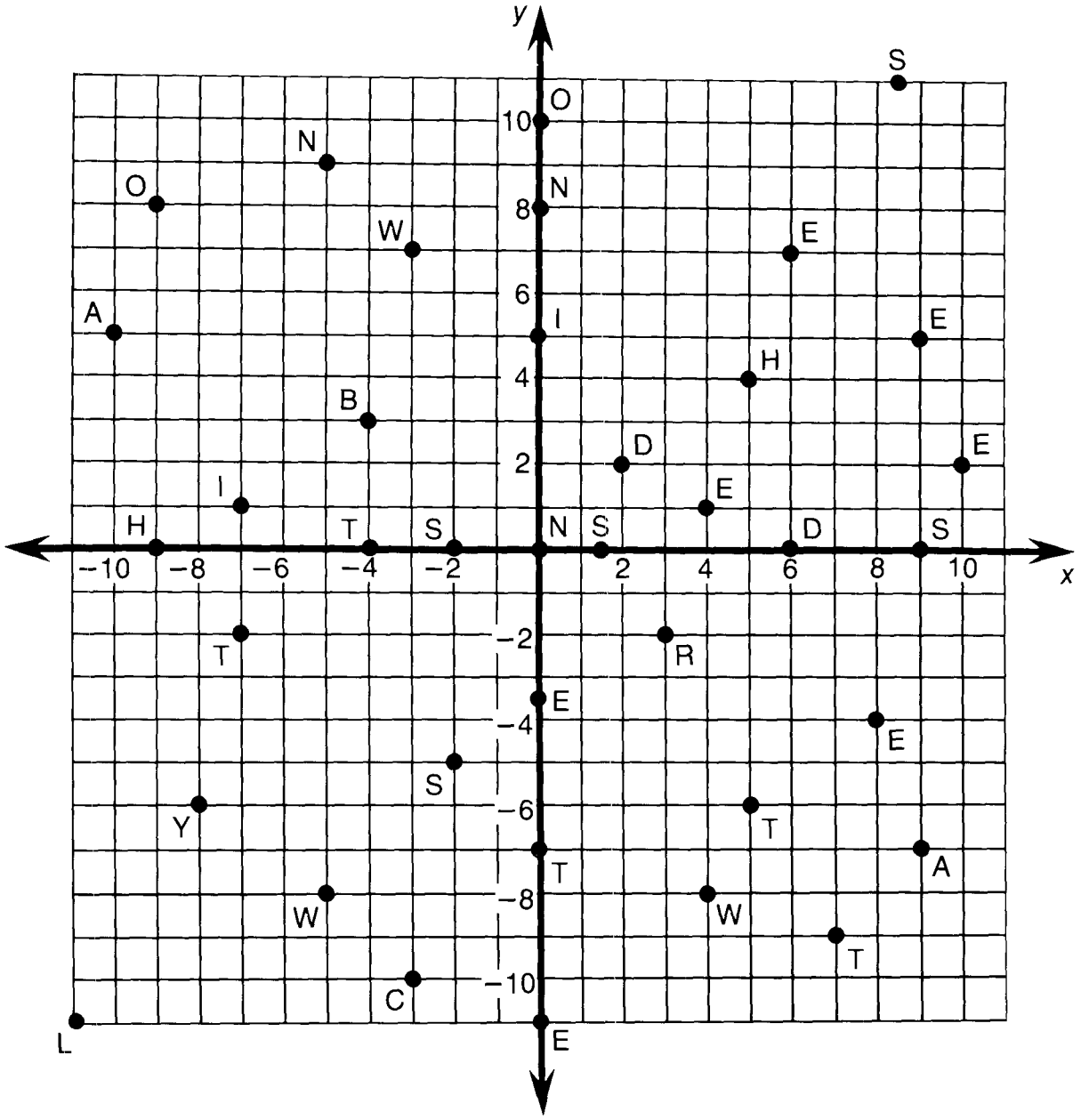
What Happened After a Burglar Broke Into a Tuba Factory ?

Each ordered pair at the bottom of the page represents a point on the coordinates below. Above each ordered pair, write the letter that appears at that point.



(5, 4)(10, 2)(−3, 7)(−10, 5)(−2, −5)(−3, −10)(3, −2)(8, −4)(6, 0)(0, 5)(−4, 0)(0, −11)(2, 2)

(−5, −8)(−7, 1)(7, −9)(−9, 0)(−7, −2)(4, −8)(6, 7)(−5, 9)(0, −7)(−8, −6)(0, 10)(0, 0)(9, 5)

(9, 0)(5, −6)(−9, 8)(−11, −11)(4, 1)(0, 8)(−4, 3)(9, −7)(−2, 0)(8.5, 11)(0,−3.5)(1.5, 0)

OBJECTIVE 5–a: To locate a point in a coordinate plane given its coordinates.

CRYPTIC QUIZ

1. Why did the little girl paint spots on the staircase?

Answer: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

14 7 4 3 11 14 11 14 15 4 1 9 2 15 15 4 12

2. What do you call a thirty-six-inch two-by-four?

Answer: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

11 10 6 13 8 4 12 5 11 12 9

Solve each equation for y in terms of x. Find your answer below and notice the letter next to it. Each time the exercise number appears in the code, write this letter above it.

(1) $x + y = 5$

(2) $-3x + y = -2$

(3) $x - y = 7$

(4) $-4x - y = 1$

(5) $3x - y = -10$

Answers:

(E) $y = -4x - 1$

(F) $y = 3x - 1$

(P) $y = -x + 5$

(W) $y = x - 7$

(Y) $y = 3x + 10$

(O) $y = 3x - 2$

(6) $-x + 2y = 6$

(7) $x - 2y = 2$

(8) $-2x + 3y = -12$

(9) $5x + 2y = 1$

(10) $4x - 3y = -2$

Answers:

(D) $y = -\frac{5}{2}x + \frac{1}{2}$

(U) $y = \frac{1}{2}x + 3$

(L) $y = \frac{4}{3}x + \frac{2}{3}$

(G) $y = \frac{3}{4}x - 4$

(H) $y = \frac{1}{2}x - 1$

(B) $y = \frac{2}{3}x - 4$

(11) $3x + 2y - 6 = 0$

(12) $x - 4y + 2 = 0$

(13) $-2x - 6y = 0$

(14) $8y - 3x = -6$

(15) $7x = 2y$

Answers:

(N) $y = \frac{4}{3}x + \frac{1}{4}$

(S) $y = \frac{3}{8}x - \frac{3}{4}$

(R) $y = \frac{1}{4}x + \frac{1}{2}$

(A) $y = -\frac{3}{2}x + 3$

(T) $y = \frac{7}{2}x$

(M) $y = -\frac{1}{3}x$

Why Did Gyro Go Into a Bakery?

For each exercise below, find the equation of the line that has the given slope and passes through the given point. Circle the letter next to the correct equation. Then write this letter in each box at the bottom of the page that contains the number of that exercise.

(1) $m = 2$; $(3, 2)$	G	$y = 2x + 1$	R	$y = 2x - 4$
(2) $m = -3$; $(1, 4)$	O	$y = -3x + 7$	P	$y = -3x + 2$
(3) $m = -5$; $(-1, 3)$	M	$y = -5x - 2$	D	$y = -5x + 6$
(4) $m = 3$; $(-4, -7)$	V	$y = 3x + 1$	E	$y = 3x + 5$
(5) $m = -1$; $(5, -2)$	U	$y = -x + 3$	C	$y = -x - 1$
(6) $m = \frac{1}{2}$; $(6, 1)$	W	$y = \frac{1}{2}x - 5$	H	$y = \frac{1}{2}x - 2$
(7) $m = -\frac{2}{3}$; $(3, 4)$	A	$y = -\frac{2}{3}x - 7$	I	$y = -\frac{2}{3}x + 6$
(8) $m = \frac{4}{3}$; $(-2, 0)$	K	$y = \frac{4}{3}x + \frac{5}{2}$	F	$y = \frac{4}{3}x + \frac{8}{3}$
(9) $m = -\frac{1}{4}$; $(2, 1)$	J	$y = -\frac{1}{4}x + \frac{3}{2}$	D	$y = -\frac{1}{4}x - \frac{3}{8}$
(10) $m = 4$; $\left(-1, \frac{1}{2}\right)$	A	$y = 4x - \frac{2}{3}$	T	$y = 4x + \frac{9}{2}$
(11) $m = -2$; $(0, 0)$	L	$y = -2x$	B	$y = -2x - 2$
(12) $m = 0$; $\left(-5, \frac{3}{4}\right)$	S	$y = \frac{3}{4}$	N	$y = -5x$

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

OBJECTIVE 5–n: To find an equation of a line given the slope and one point on the line.