

How Can You Order a Ladder?



Solve each system of equations by the addition method. (You may first need to multiply both sides of one equation by -1 .) Find the solution in the coordinate system and notice the letter at that point. Write this letter in each box that contains the exercise number.

1 $3x + y = 17$
 $4x - y = 18$

2 $5x + 6y = 13$
 $-5x + 2y = 11$

3 $-x - 7y = 18$
 $4x + 7y = -30$

4 $4x - 2y = 12$
 $-4x - 9y = 54$

5 $x + 3y = 15$
 $-8x + 3y = -12$

6 $6x + 15y = -45$
 $6x + 5y = -35$

7 $3x + 2y = 0$
 $9x - 24 = 2y$

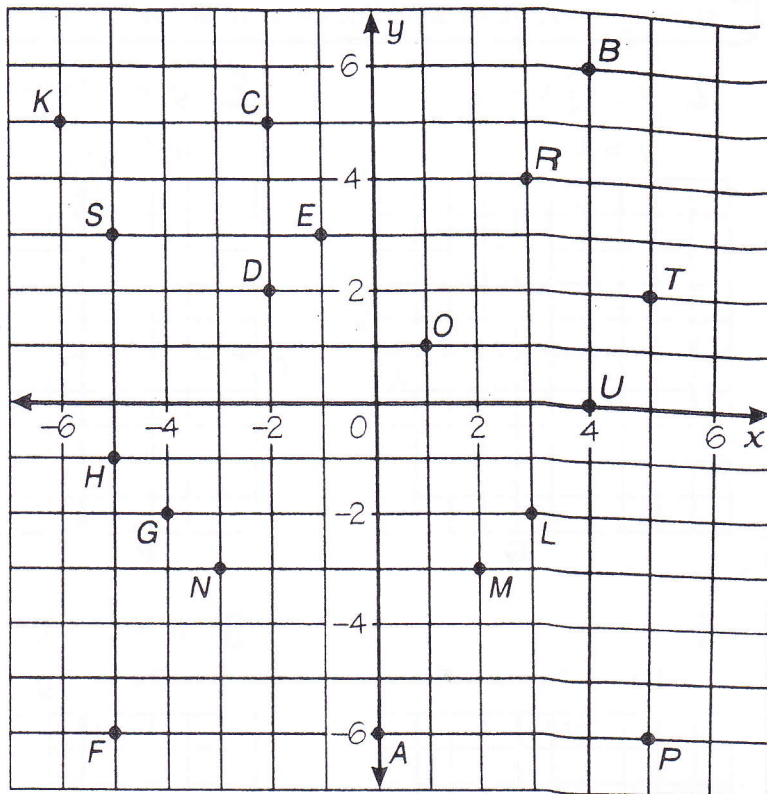
8 $8x = 9 - 5y$
 $8x - 3y = -31$

9 $4y + 4 = 7x$
 $36 - 4y = 3x$

10 $16x - 5y = -33$
 $16x + y = -51$

11 $3x - 10y - 29 = 0$
 $-11x - 10y + 13 = 0$

12 $9x + 2y = 36$
 $9x + 8y = 36$

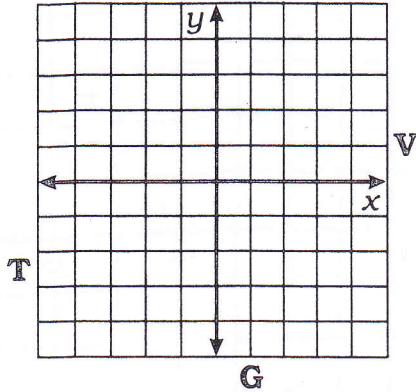


8 4 11 11 1 6 2 5 12 10 3 10 12 7 9 2 5

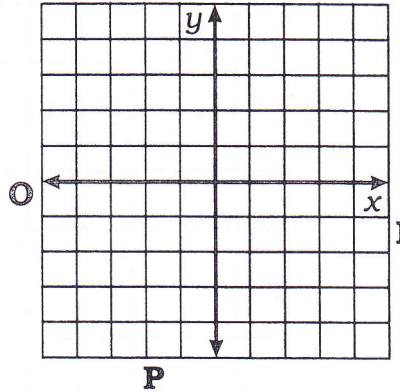
Which Member of Fred Ferd's Family Thinks He's a Pen?

Show the solution region for each system with crosshatching or shading. The crosshatching or shading, if extended, would cover a letter. Write this letter in each box with the exercise number.

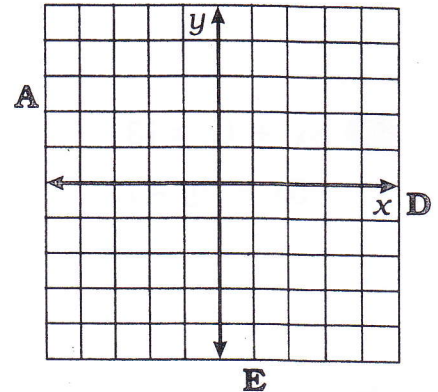
1. $y \geq \frac{3}{4}x - 2$
 $y \leq 1$



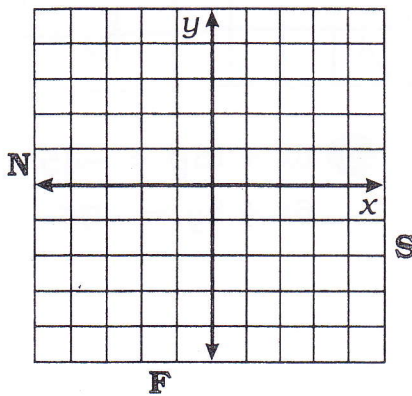
2. $y \geq -2x - 3$
 $y \leq \frac{1}{3}x + 2$



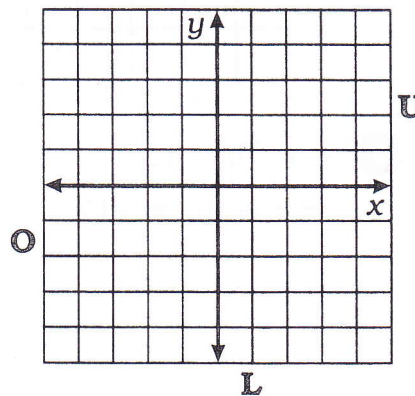
3. $y < \frac{3}{2}x + 3$
 $y < -x + 1$



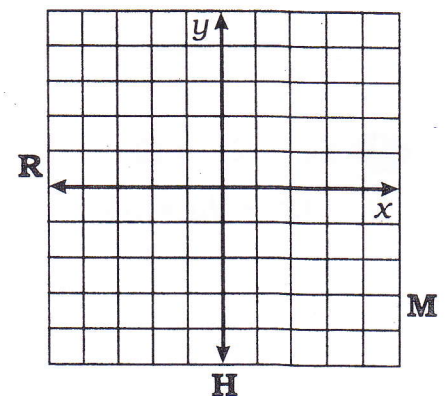
4. $y \leq x$
 $5x + 3y > -6$



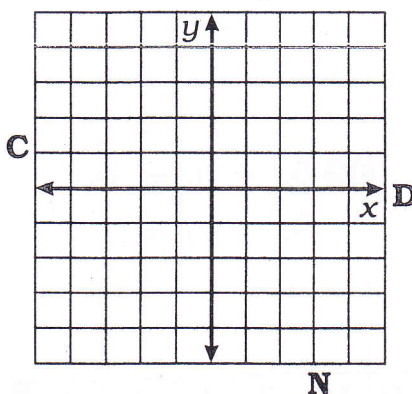
5. $y + 3 > 0$
 $-2x - 5y \geq 5$



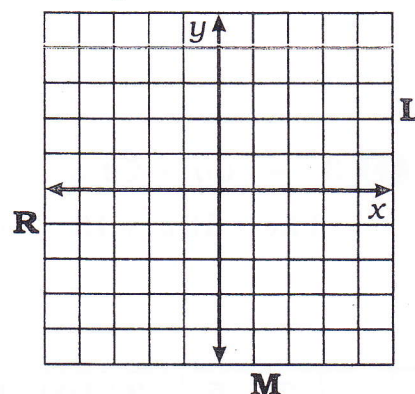
6. $x < 2$
 $x - 2y > 6$



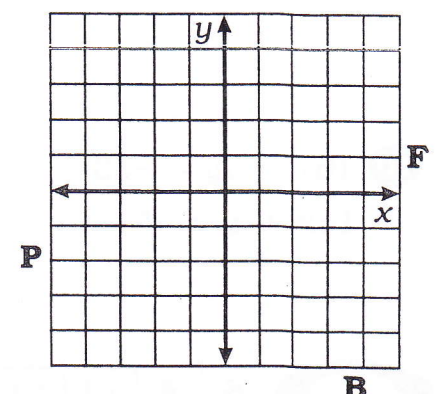
7. $8x + 12y < 24$
 $35x - 20y \leq 80$



8. $10x + 10y \leq 30$
 $y - 3x > 0$



9. $y + 2 \leq 0$
 $2 - x \leq 0$



6	2	4	9	2	7	9	8	5	1	6	3	8
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