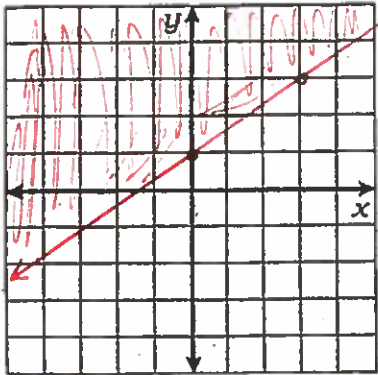


Why Did the Plum Divorce the Grape?

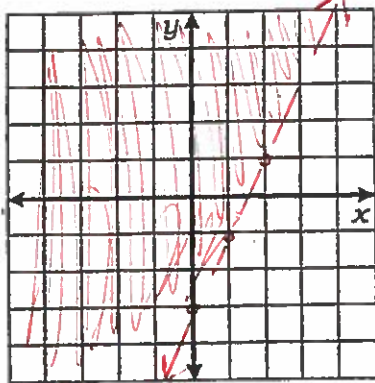
Graph each inequality. Under each grid are true-or-false statements describing the location of solutions. Circle the number-letter pair next to each TRUE statement. For these pairs, write the letter in the matching numbered box at the bottom of the page.



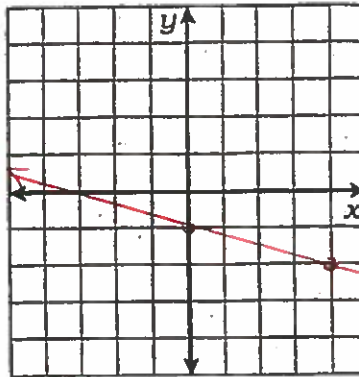
1. $y \geq \frac{2}{3}x + 1$



2. $y > 2x - 3$



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



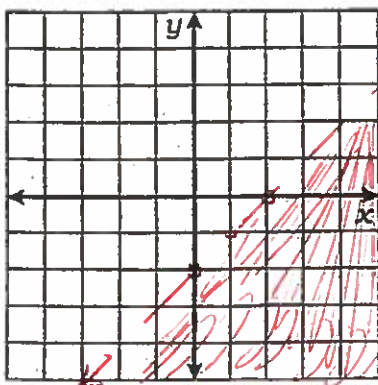
- 19. **A** Includes boundary line.
- 2. **H** Solutions in quadrant 1.
- 26. **I** Solutions in quadrant 2.
- 8. **B** Solutions in quadrant 3. *
- 28. **D** Solutions in quadrant 4.

- 20. **L** Includes boundary line.
- 28. **S** Solutions in quadrant 1.
- 10. **I** Solutions in quadrant 2.
- 6. **A** Solutions in quadrant 3.
- 23. **N** Solutions in quadrant 4.

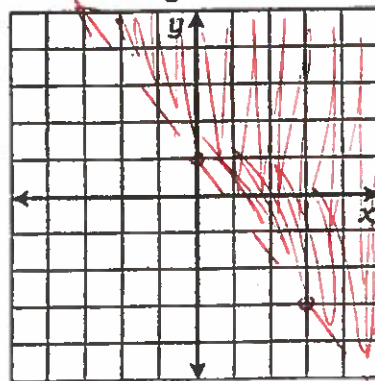
- 15. **O** Includes boundary line.
- 1. **T** Solutions in quadrant 1.
- 7. **S** Solutions in quadrant 2.
- 20. **I** Solutions in quadrant 3.
- 3. **B** Solutions in quadrant 4.



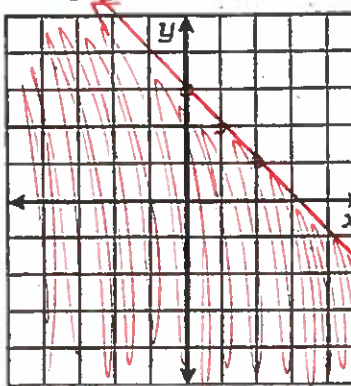
4. $y < x - 2$



5. $y > -\frac{4}{3}x + 1$



6. $y \leq -x + 3$



- 5. **H** Includes boundary line.
- 13. **D** Solutions in quadrant 1.
- 18. **T** Solutions in quadrant 2.
- 1. **S** Solutions in quadrant 3.
- 22. **I** Solutions in quadrant 4.

- 24. **G** Includes boundary line.
- 16. **F** Solutions in quadrant 1.
- 5. **W** Solutions in quadrant 2.
- 17. **S** Solutions in quadrant 3.
- 9. **T** Solutions in quadrant 4.

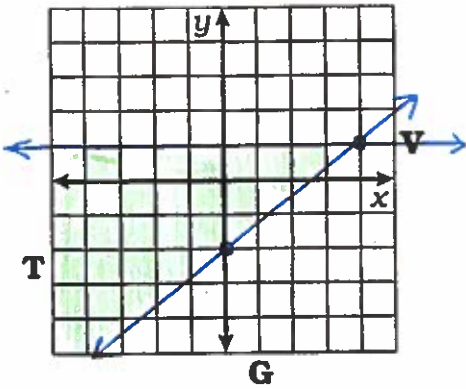
- 25. **B** Includes boundary line.
- 11. **R** Solutions in quadrant 1.
- 27. **D** Solutions in quadrant 2.
- 18. **R** Solutions in quadrant 3.
- 21. **S** Solutions in quadrant 4.

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
S	H	E	W	A	S	T	I	R	E	D	O	F	R	A	I	S	I	N	K	I	D	S				

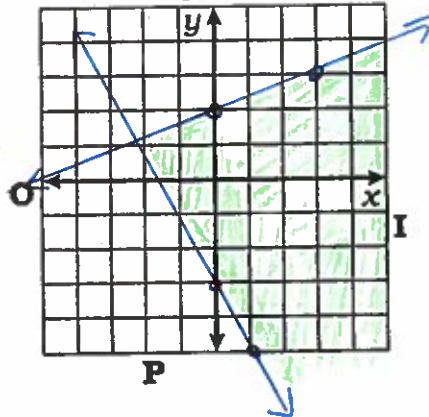
Which Member of Fred Ferd's Family Thinks He's a Pen?

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.

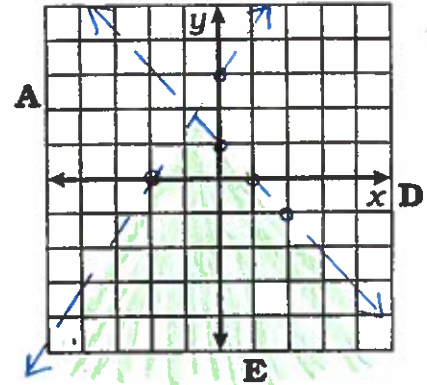
1. $y \geq \frac{3}{4}x - 2$
 $y \leq 1$



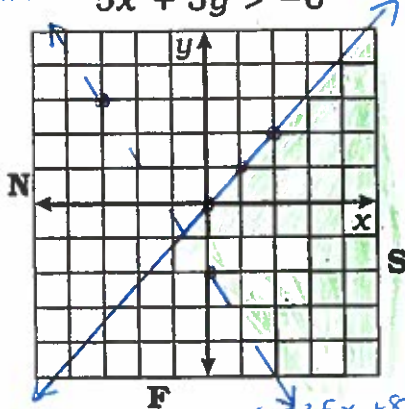
2. $y \geq -2x - 3$
 $y \leq \frac{1}{3}x + 2$



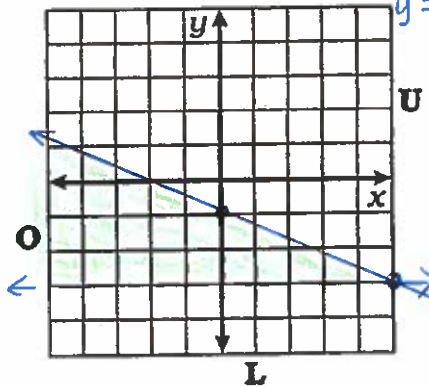
3. $y < \frac{3}{2}x + 3$ *backtrack slope*
 $y < -x + 1$



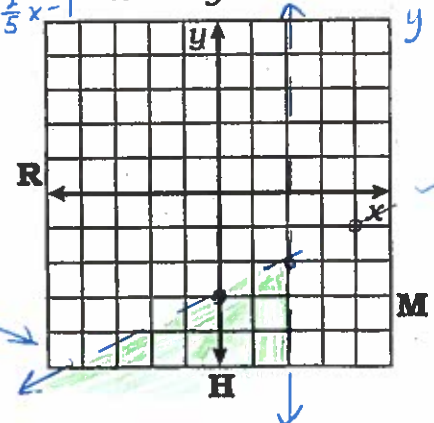
4. $y \leq x$ *backtrack*
 $5x + 3y > -6$ *3y > -5x - 6*
y > -5/3x - 2



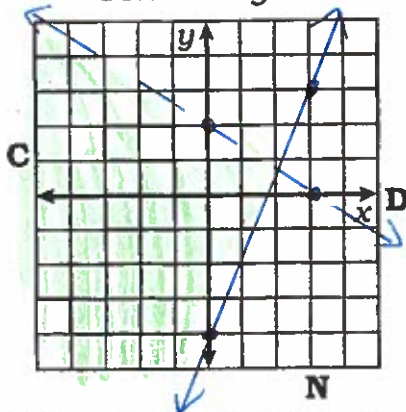
5. $y + 3 > 0$ *y > -3*
 $-2x - 5y \geq 5$ *-5y >= 2x + 5*
y <= -2/5x - 1



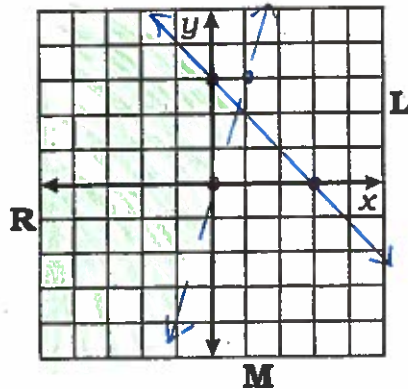
6. $x < 2$
 $x - 2y > 6$ *-2y > -x + 6*
y < 1/2x - 3



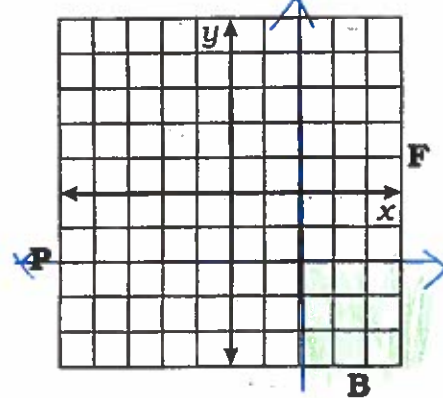
7. $8x + 12y < 24$ *-20y <= 35x + 80*
 $35x - 20y <= 80$ *y >= 7/4x - 4*



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



9. $y + 2 \leq 0$ *y <= -2*
 $2 - x \leq 0$ *-x <= -2*
x >= 2



6	2	4	9	2	7	9	8	5	1	6	3	8
H	I	S	B	I	C	B	R	O	T	H	E	R