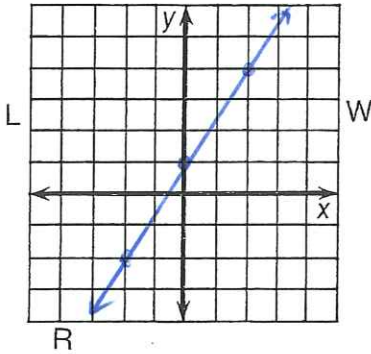


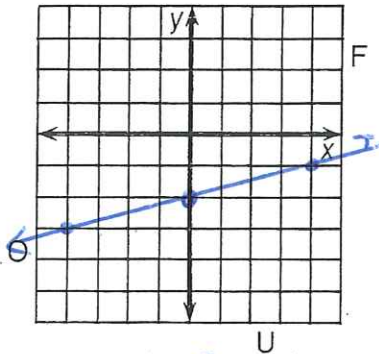
# Why Does a Poor Man Drink Coffee?

Use the slope and  $y$ -intercept to graph each equation below. The graph, if extended, will cross a letter. Print this letter in each box that contains the number of that exercise.

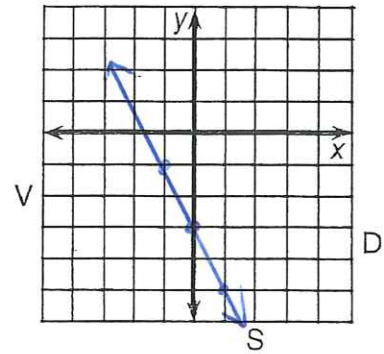
①  $-3x + 2y = 2$



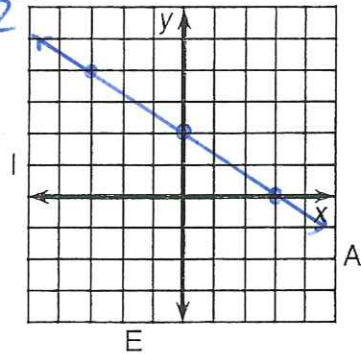
②  $x - 4y = 8$



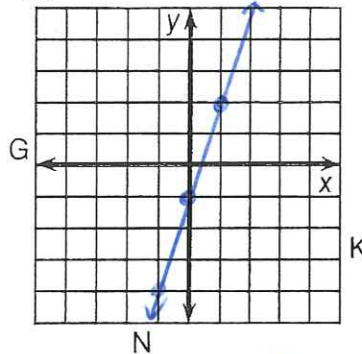
③  $2x + y = -3$



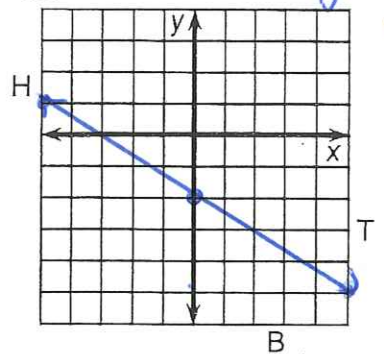
④  $2x + 3y = 6$



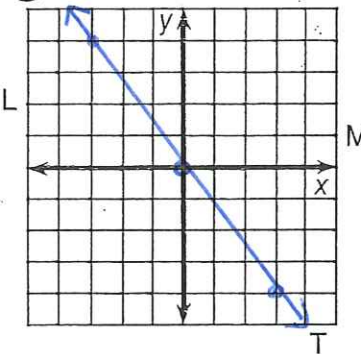
⑤  $3x - y = 1$



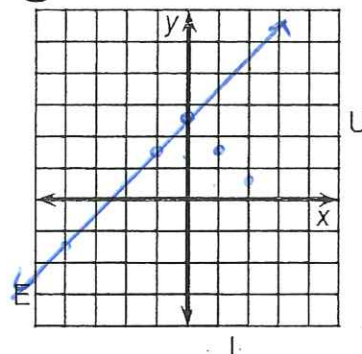
⑥  $-3x - 5y = 10$



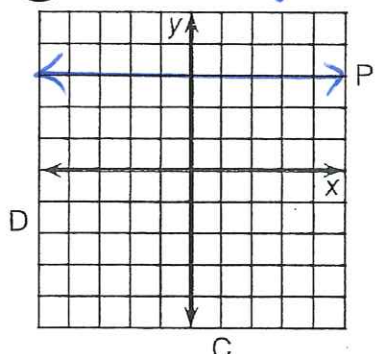
⑦  $4x + 3y = 0$



⑧  $2x - 2y + 5 = 0$



⑨  $y - 3 = 0$



6 8 6 4 3 5 2 9 1 2 9 8 1 7 8 4  
 H E H A S N O P R O P E R T E A

# What Happened When Two Fruit Companies Merged?

For each exercise below, find the equation of the line passing through the given points. Circle the two letters next to the correct equation. Then write these letters in the two boxes at the bottom of the page that contain the number of that exercise.

Answers:

- ① (1, 5) (2, 7)  $m = 2$  DE  IS  $y = \frac{2}{3}x + 3$   TH  $y = \frac{1}{2}x - 4$
- ② (0, 1) (3, -8)  $m = -3$  CT  AP  $y = -\frac{3}{2}x + 8$   UI  $y = -3x + 5$
- ③ (2, -3) (4, -2)  $m = \frac{1}{2}$  TH  ST  $y = \frac{1}{2}x - 7$   DE  $y = 2x + 3$
- ④ (2, 5) (4, 2)  $m = -\frac{3}{2}$  AP  CT  $y = -3x + 1$   EY  $y = 4x + 7$
- ⑤ (-3, -5) (-1, 3)  $m = \frac{8}{2} = 4$  EY  LO  $y = -\frac{3}{2}x - 4$   IL  $y = 2x + 1$

Answers:

- ⑥ (3, -1) (-6, -4)  $m = \frac{-3}{9} = -\frac{1}{3}$  AR  HA  $y = \frac{1}{2}x - 1$   ER  $y = -\frac{3}{4}x + 4$
- ⑦ (4, 1) (-4, 7)  $m = \frac{-6}{8} = -\frac{3}{4}$  EL  IS  $y = \frac{1}{3}x + \frac{8}{3}$   EL  $y = -2x - 1$
- ⑧ (-1, 2) (3, 4)  $m = \frac{2}{4} = \frac{1}{2}$  MA  PE  $y = -x + 2$   EA  $y = -\frac{3}{4}x + 2$
- ⑨ (-1, -4) (2, 0)  $m = \frac{4}{3}$  FE  SO  $y = \frac{4}{3}x - 2$   AR  $y = \frac{1}{3}x - 2$
- ⑩ (3, -1) (-3, 5)  $m = \frac{6}{-6} = -1$  MA  MA  $y = \frac{1}{2}x + \frac{5}{2}$   FE  $y = \frac{4}{3}x - \frac{8}{3}$

3 3 5 5 8 8 1 1 4 4 7 7 9 9 2 2 10 10 6 6  
T H E Y M A D E A P E R F E C T P E A R