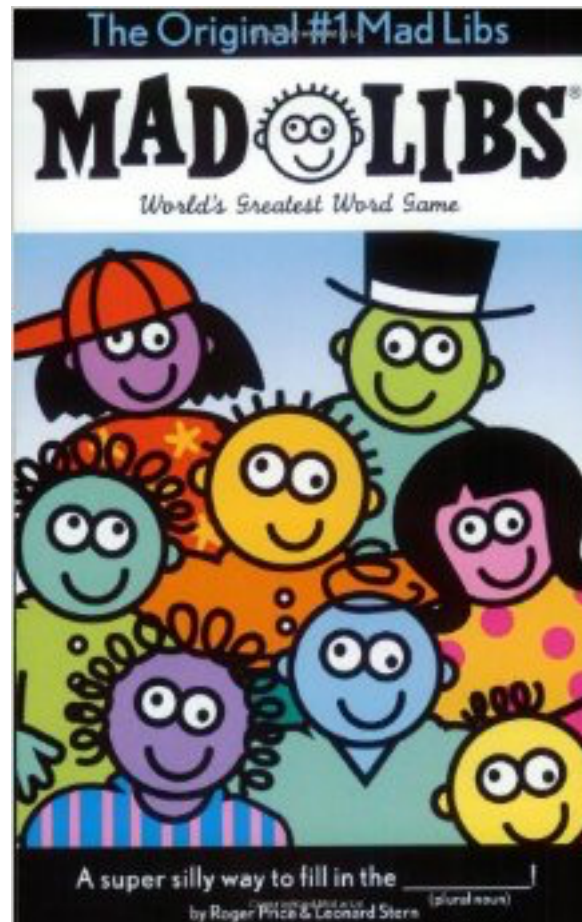


MATH LIB



1

Which equation represents a line that passes through the point $(-3, -5)$ and is parallel to the line $8x + 2y = 2$?

A) $y = \frac{1}{4}x - \frac{17}{4}$

Mr. Neesan

B) $y = 4x + 7$

Ms. Kim

C) $y = -4x - 17$

Ms. Glawe

D) $y = 8x + 21$

Mr. Hamel

E) $y = -\frac{1}{4}x - \frac{23}{4}$

Ms. DeLisle

2

Solve the absolute value inequality:

$$\left| 6 - \frac{3}{2}x \right| < 9$$

A) $2 < x < 10$

excited

B) $-2 < x < 10$

surprised

C) $-2 > x > -10$

shocked

D) $x < 2$ or $x > 10$

confused

E) $x < -2$ or $x > -10$

thrilled

3

Solve the system:

$$3x + 2y = 4$$

$$6x - 3y = -27$$

A) (-2, -5)

playing soccer

B) (2, 5)

making pancakes

C) (2, -5)

juggling

D) (-2, 5)

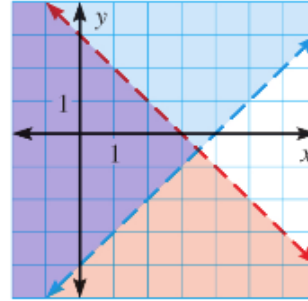
eating pizza

E) (-2, 0)

grading papers

4

Which system of inequalities is represented by the graph?



A) $x + y > 3$ & $-x + y < -4$ Taylor Swift

B) $-x + y \geq -4$ & $x + y \leq 3$ Justin Bieber

C) $-2x + y > -4$ & $2x + y < 3$ Fetty Wap

D) $2x - y > -4$ & $2x - y < 3$ Beyoncé

E) $-x + y > -4$ & $x + y < 3$ Ellen Degeneres

5

What is the slope of the line passing through the point $(0, -4)$ and $(-3, 2)$?

A) -2

Friday night

B) $1/2$

Christmas

C) $-1/2$

Halloween

D) 2

the 4th of July

E) -4

the last day of school

6

What is the value of k in the equation

$$6x^2 - 11x - 10 = (3x + 2)(2x - k)?$$

- A) 4 Planet Hollywood
- B) 5 Universal Studios
- C) -5 Mall of America
- D) -4 Disney World
- E) 3 Chuck E. Cheese

7 What equation
do you obtain when you solve
the equation $4x - 5y = 20$ for y ?

- A) $y = 4/5x - 4$ a boat
- B) $y = -4/5x + 4$ a hot-air balloon
- C) $y = 5/4x + 5$ a school bus
- D) $y = 4/5x - 20$ a wagon
- E) $y = -5/4x - 4$ a gift shop



What is the maximum value of
 $y = -3x^2 + 12x - 8$?

- A) -4 pajamas
- B) -8 tu-tus
- C) 4 gorilla costumes
- D) 2 bow-ties
- E) -2 propeller hats

9

Which of the following best describes the graphs of the equations below?

$$6x + 2y = 2 \text{ \& } 6y = -2x + 6$$

- | | |
|---------------------------------------|-------------------|
| A) Lines are parallel | solving equations |
| B) Lines are perpendicular | doing push-ups |
| C) Lines have the same x -intercept | wrestling a bear |
| D) Lines have the same y -intercept | doing “the whip” |
| E) None of the above | rollerblading |

10

Solve the system:

$$-2x + y = -5$$

$$6x - 3y = 15$$

A) (0, 0)

to impress everyone

B) (1, 1)

to promote world peace

C) no solution

to end hunger

D) (0, 1)

to win a bet

E) infinitely many solutions

to show how cool math is