

Name: _____

Directions: ① Draw braces on each system.
#3-8, show work on notebook paper.
#1-8, check all solutions on notebook paper.

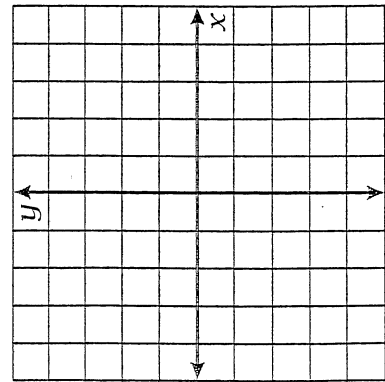


What Did the Teacher Do With Ogar's Cheese Report?

Solve each system of equations by graphing. Cross out the letters above each correct answer. When you finish, the remaining letters will tell you the answer to the title question.

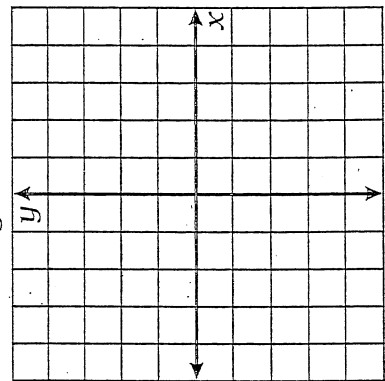
1. $y = \frac{3}{2}x - 1$

$y = -x + 4$



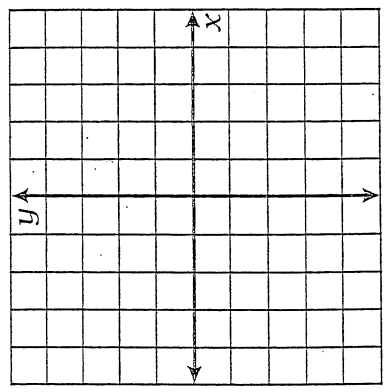
2. $y = \frac{1}{3}x + 2$

$y = -\frac{4}{3}x - 3$



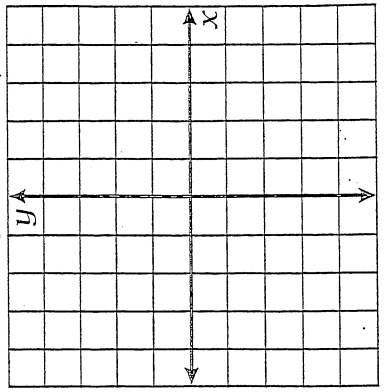
3. $y = 2x + 1$

$-2x + 3y = -9$



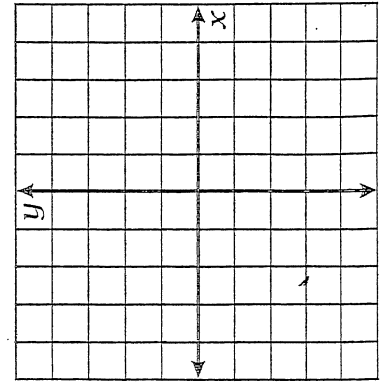
4. $3x + y = 0$

$x - y = 4$



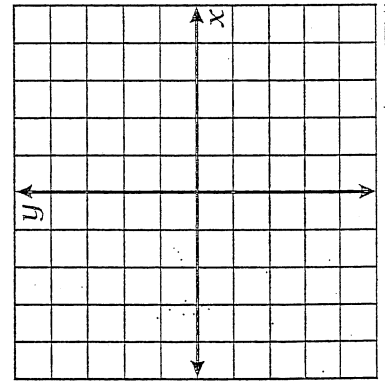
5. $-3x + 4y = 8$

$x + 2y + 6 = 0$



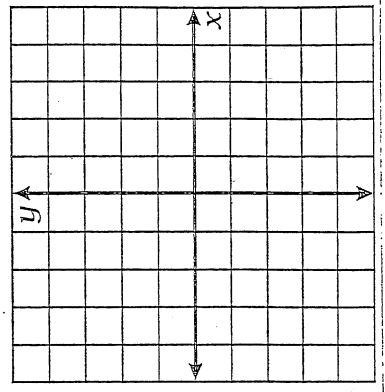
6. $7x - 5y = 20$

$-8x - 3y = 12$



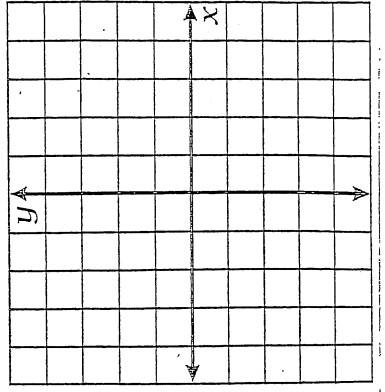
7. $-x - 4y = 12$

$20x + 80y = 0$



8. $30x + 50y - 100 = 0$

$3x - 15y - 30 = 0$



SOLVING PROBLEMS WITH GRAPHS

Solve each problem by writing and graphing a system of equations that models the situation:

Situation 1. ROCKET RIDE.

The Rocket Coaster has 10 cars, some that hold 4 people and some that hold 8 people. There is room for 56 people altogether. How many 4-passenger cars are there? How many 8-passenger cars are there?

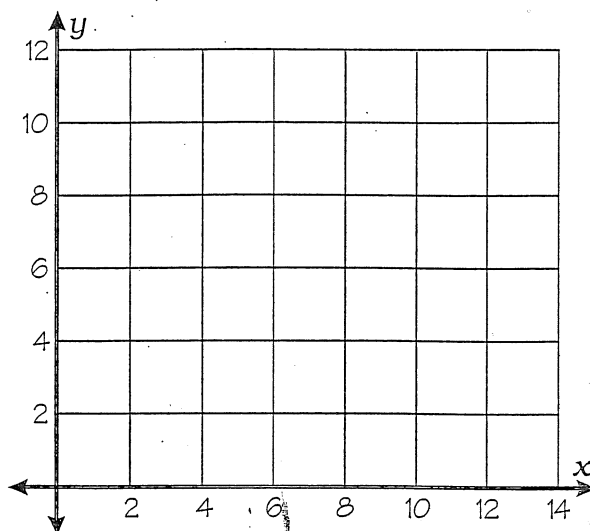
Let x = number of 4-passenger cars

Let y = number of 8-passenger cars

equation #1: _____

equation #2: _____

Solution: _____



Situation 2. FUN, FUN, FUN.

The cost of admission to Funland Park was \$70 for a group of 2 adults and 5 children. The admission was \$84 for another group of 4 adults and 3 children. Find the admission price for each adult and each child.

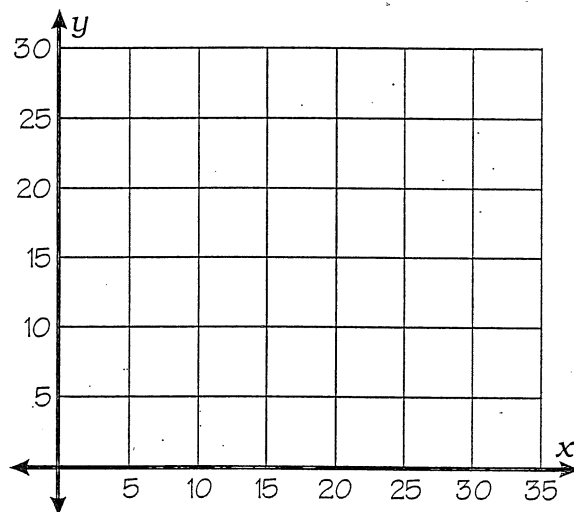
Let x = price of an adult's admission

Let y = price of a child's admission

equation #1: _____

equation #2: _____

Solution: _____



Situation 3. HOW ABOUT A KISS?

The number of calories in a chocolate kiss is 20 less than the number of calories in a caramel cluster. Three kisses plus four clusters together have 360 calories. How many calories are in each?

Let x = calories in a chocolate kiss

Let y = calories in a caramel cluster

equation #1: _____

equation #2: _____

Solution: _____

