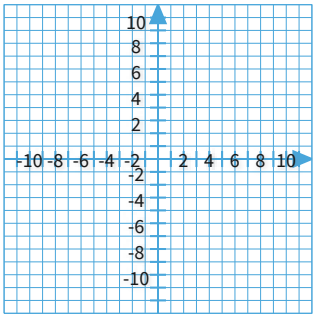
# Solutions to a System of Equations by Graphing

Name:

#1

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-1x+9$

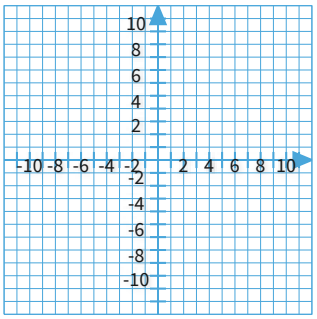
$3y=-3x+27$

- infinitely many solutions
- no solution
- one solution

Show your work

#2

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-\frac{7}{9}x+9$

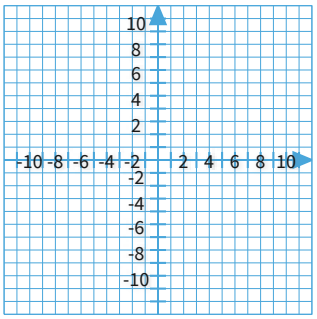
$3y=-2\frac{1}{3}x+27$

- infinitely many solutions
- no solution
- one solution

Show your work

#3

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=2x-3$

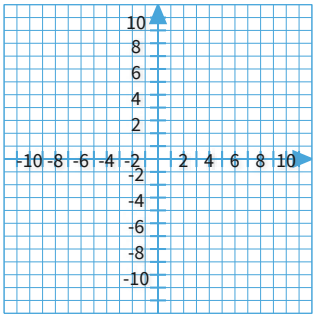
$y=-\frac{1}{4}x+6$

- no solution
- infinitely many solutions
- one solution

Show your work

#4

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-2x-8$

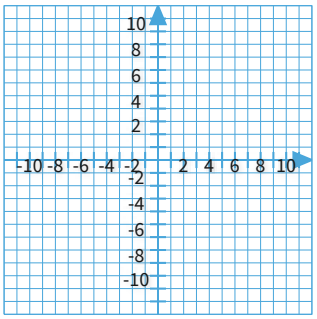
$y=3\frac{1}{3}x+8$

○ one solution ○ no solution ○ infinitely many solutions

Show your work

#5

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-\frac{1}{6}x+6$

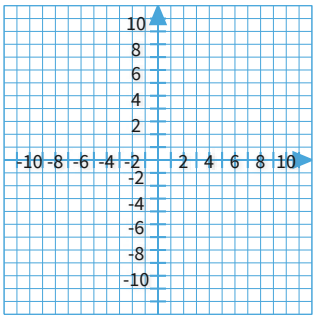
$y=-1\frac{5}{6}x-4$

○ one solution ○ no solution ○ infinitely many solutions

Show your work

#6

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-2x-4$

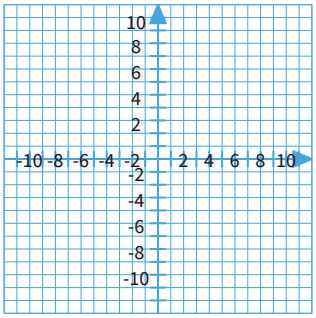
$2y=-4x-8$

○ one solution ○ no solution ○ infinitely many solutions

Show your work

#7

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



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

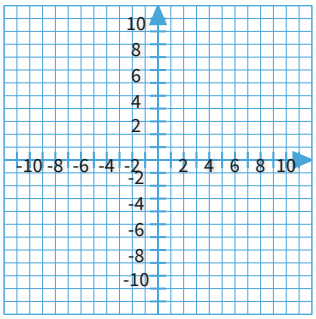
$y=\frac{2}{3}x-9$

- one solution
- no solution
- infinitely many solutions

Show your work

#8

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-7x+7$

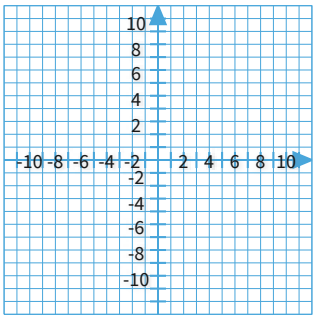
$3y=-21x+21$

- one solution
- no solution
- infinitely many solutions

Show your work

#9

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-\frac{3}{7}x+9$

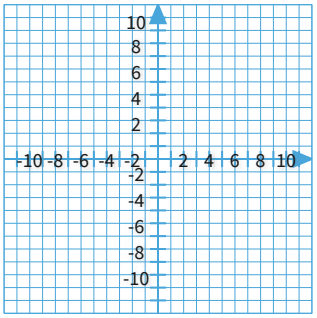
$2y=-\frac{6}{7}x+18$

- infinitely many solutions
- no solution
- one solution

Show your work

#10

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-5\frac{1}{2}x-8$

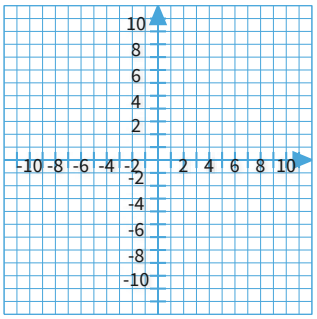
$y=-5\frac{1}{2}x-6$

- infinitely many solutions
- no solution
- one solution

Show your work

#11

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=1\frac{1}{2}x-9$

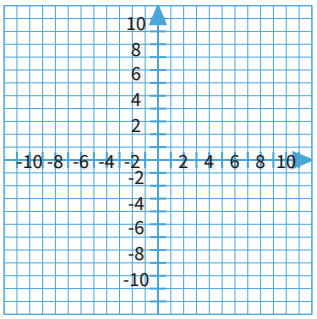
$y=-\frac{5}{8}x+8$

- one solution
- no solution
- infinitely many solutions

Show your work

#12

Graph these equations. Click to select points on the graph. Switch between the equations by selecting them in legend. Which describes the system of equations?



$y=-1\frac{2}{7}x-3$

$3y=-3\frac{6}{7}x-9$

- one solution
- infinitely many solutions
- no solution

Show your work

| Question | Answer |
|---|---|
| #1 | choice 1 |
| #2 | choice 1 |
| #3 | choice 3 |
| #4 | choice 1 |
| #5 | choice 1 |
| #6 | choice 3 |
| #7 | choice 2 |
| #8 | choice 3 |
| #9 | choice 1 |
| #10 | choice 2 |
| #11 | choice 1 |
| #12 | choice 2 |