

This page includes an additional set of info gap cards to use as an optional demonstration.

Cards for the student activity are located on the following page.

Info Gap: Linear Systems

Problem Card 0

$$\begin{cases} y = -3x + 2 \\ ax + by = 1 \end{cases}$$

What are the values of a and b ?

Info Gap: Linear Systems

Data Card 0

- The point $(0,2)$ is a solution.
- The second equation has a slope of -3 .
- The point $(1,-1)$ is a solution.
- $0 < b < 1$
- There are infinitely many solutions.

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Info Gap: Linear Systems

Problem Card 1

The first equation in the system has a slope of 3.

How many solutions does the system have? If there is 1 solution, find it. Explain your reasoning.

Info Gap: Linear Systems

Data Card 1

- The slope of the second equation is 3.
- The point $(1, -3)$ is on the first line.
- The point $(2, 13)$ is on the second line.
- The y -intercept of the second equation has a y value of 7.
- An intercept for the first equation has an x value of 2.

Info Gap: Linear Systems

Problem Card 2

The solution to a system of equations is $(4, 3)$.

What are the two linear equations in the system? Write one equation in standard form $(Ax + By = C)$ and the other equation in slope-intercept form $(y = mx + b)$.

Info Gap: Linear Systems

Data Card 2

- The first equation has an intercept at $(0, -5)$.
- The second equation has intercepts at $(0, 6)$ and $(8, 0)$.
- The second equation has a slope of $-\frac{3}{4}$.

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