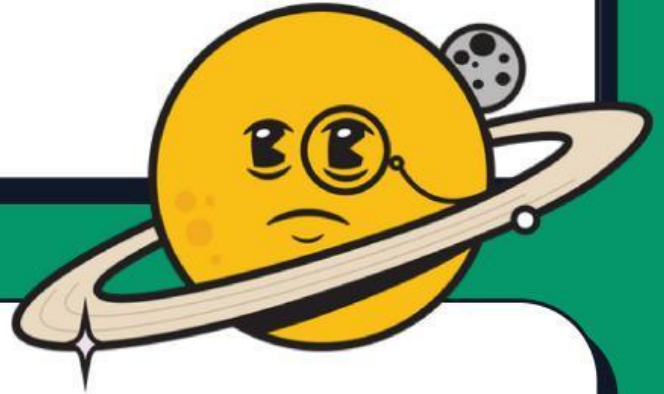


Linear Equation Graphs



LEARNING OBJECTIVES

In this lesson, I will learn ...

- graph linear equations with two variables by plotting points.
- use the graph to solve real-world problems.

LET'S GET STARTED



1

Plotting a graph

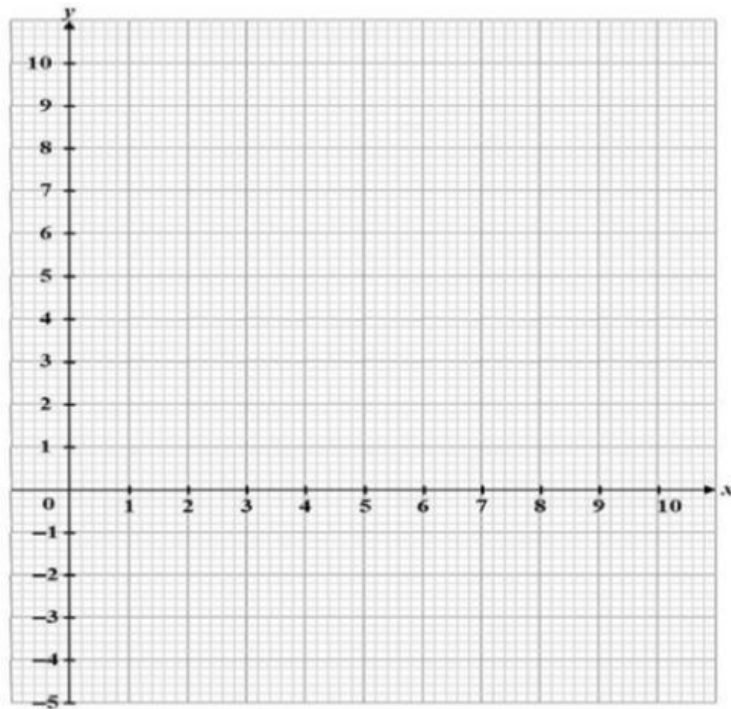
List five pairs of positive numbers that add up to 10. For each pair, call one number x and the other number y . Fill the table.

Pair	A	B	C	D	E
x					
y					



LET'S GET STARTED

- 2 Plot the points you choose on a set of coordinate axes. Connect the dots



- 3 What shape is the graph?

- 4 How many pairs of numbers add up to 10?

- 5 What does the graph represent?

DRAW A GRAPH

Let's learn how to draw a graph of linear equation with two variables step by step.
Draw the graph of the equation $y = x + 2$

1

Choose three values of x and find the corresponding values of y . Set up a table to represent the three ordered pairs.

Fill in the table.

$$y = x + 2$$

x	-2	0	2
y			

2

Choose suitable scales for the x-axis and y-axis

3

On the coordinate plane, plot the three points representing the ordered pairs in Step 1. Draw a straight line by its equation.

