Chapter 5 Linear Equations In Two Unknowns

Class Activity 1

Questions

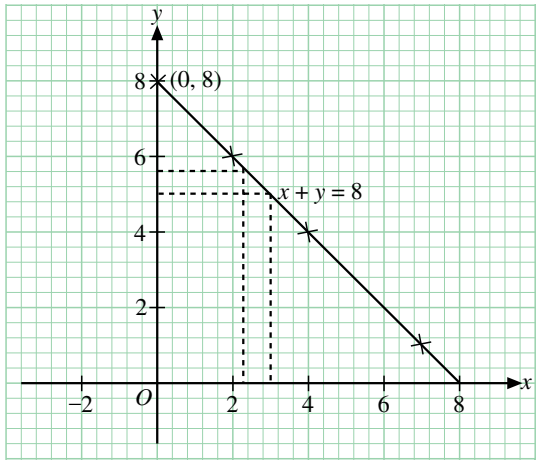
1. Consider the linear equation in two unknowns $x + y = 8$.

(a) Copy and complete the following table of solutions of the equation.

$x + y = 8$

x	0	2	4	**7**
y	8	**6**	**4**	1

(b) On a sheet of graph paper, plot the points found in **(a)** using the scale for both axes as shown below and draw the graph of $x + y = 8$.



(c) Reading from your graph, what is the value of k if $(3, k)$ is a solution of $x + y = 8$?

From the graph, the value of k is 5 if $(3, k)$ is a solution of $x + y = 8$.

(d) Reading from your graph, what is the value of q if $\left(2\frac{1}{3}, q\right)$ is another solution of $x + y = 8$?

From the graph, the value of q is 5.6 if $\left(2\frac{1}{3}, q\right)$ is a solution of $x + y = 8$.

(e) What should the exact value of q be?

$2\frac{1}{3} + q = 8$, $q = 5\frac{2}{3}$

(f) Can you read the exact value of q from your graph?

No, we cannot read the exact value of q from the graph.