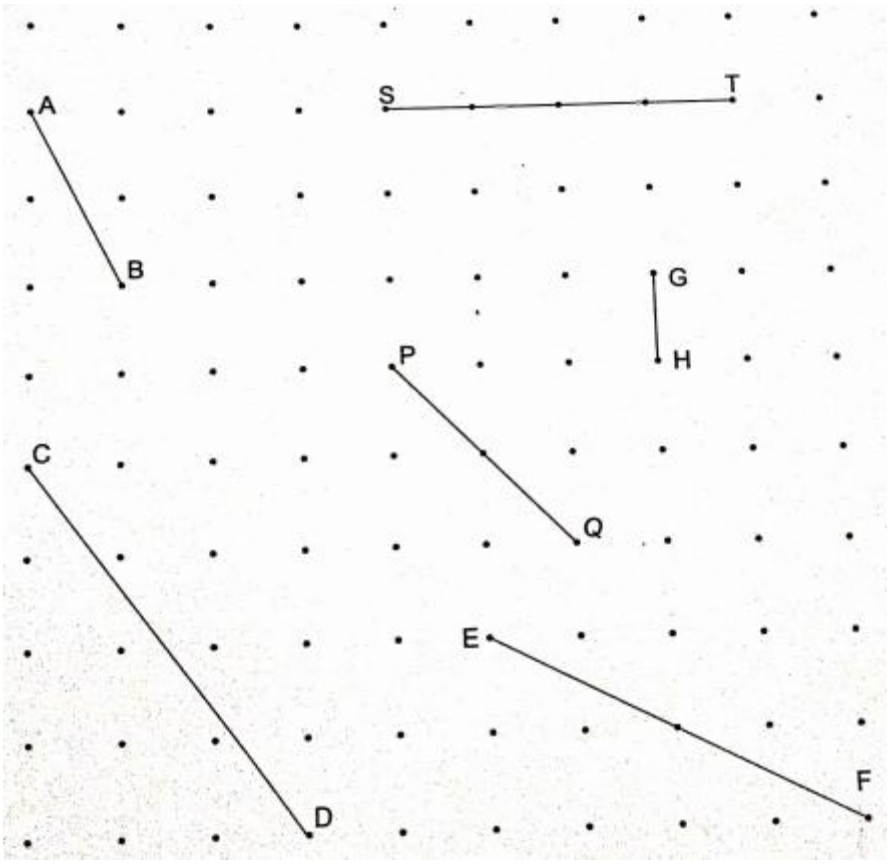
Name:
Class: VIII
Subject: MATHS
Session: 2020-21

Topic: Rational Numbers and Irrational Numbers

Project: Some line segments of different length are drawn on a dotted square grid.



(a) Find the length of each of the given line segments if the distance between any two adjacent dots on the grid is 1 cm.

i. AB : $\sqrt{2^2 + 1^2} = \sqrt{5}$ cm
ii. CD : _____
iii. EF : _____
iv. GH : _____
v. PQ : _____
vi. ST : _____

(b) Which of the lengths are rational numbers?

_____

(c) Which of the lengths are irrational numbers?

_____

(d) Draw line segments of length XY= $\sqrt{10}$ cm, KL= $\sqrt{13}$ cm, FG= $\sqrt{18}$ cm and MN=$\sqrt{32}$ cm respectively on a dotted square grid and label them.