

Name - _____

Start time - __: __

End time - __: __

Solve the following:

1.
 - a) Mark points P and Q that are 5 cm apart.
 - b) Draw the locus of points which are 3 cm from P.
 - c) Draw the locus of points which are 4 cm from Q.
 - d) Show clearly which points are both 3 cm from P and 4 cm from Q.

2. Draw a line RS which is 5 cm long. Construct the locus of points that are equidistant from R and S and less than 4 cm from R.

3.
 - a) Construct an isosceles triangle DEF with $DE = EF = 5$ cm and $DF = 3$ cm.
 - b) Draw the locus of points which are equidistant from D and F and less than 2 cm from E.

4. Lines AB and CD are both 6 cm long. AB and CD are perpendicular to each other and cross at the midpoint of each line, M.
 - a) Construct lines AB and CD.
 - b) Draw the locus of points which are less than 2 cm from AB and CD.

5. Two camels set off at the same time from towns A and B, located 50 miles apart in the desert.
 - a) Draw a scale diagram showing towns A and B. Use a scale of 1 cm: 10 miles.
 - b) If a camel can walk up to 40 miles in a day, show on your diagram the region where the camels could possibly meet each other after walking for one day.