

NAME : _____

CLASS : _____

HOW DO YOU PERFORM A GEOMETRICAL CONSTRUCTION

(i) Line segments

A section of a straight line with a fixed length is known as a **line segment**.

Construct the line segment AB with a length of 8 cm using only a pair of compasses and a ruler.

Solution



From point A , with the distance of 8 cm on the compasses, mark point B on the line.



Draw a line and mark point A on the line.



Measure a distance of 8 cm on the compasses.

Arrange the pictures below in the correct order.



(ii) Perpendicular bisectors

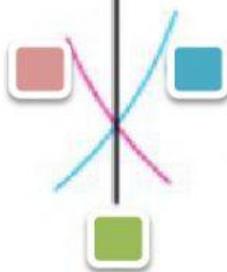
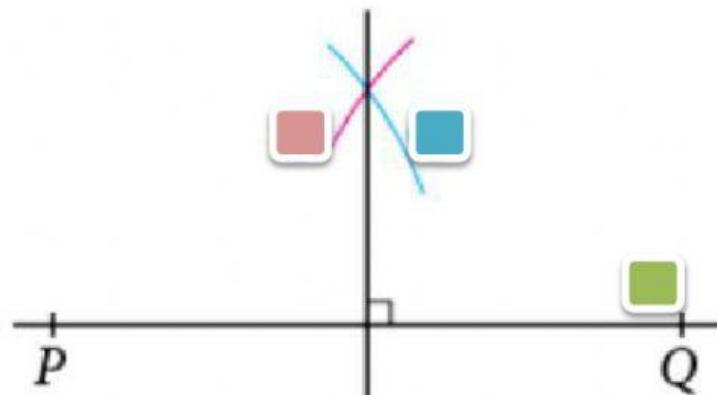
If line AB is perpendicular to line segment CD and divide CD into two parts of equal length, then line AB is known as the **perpendicular bisector** of CD .

Construct the perpendicular bisector of line segment PQ using only a pair of compasses and a ruler.



Solution

Arrange the pictures below in the correct order.



(iii) Perpendicular line to a straight line

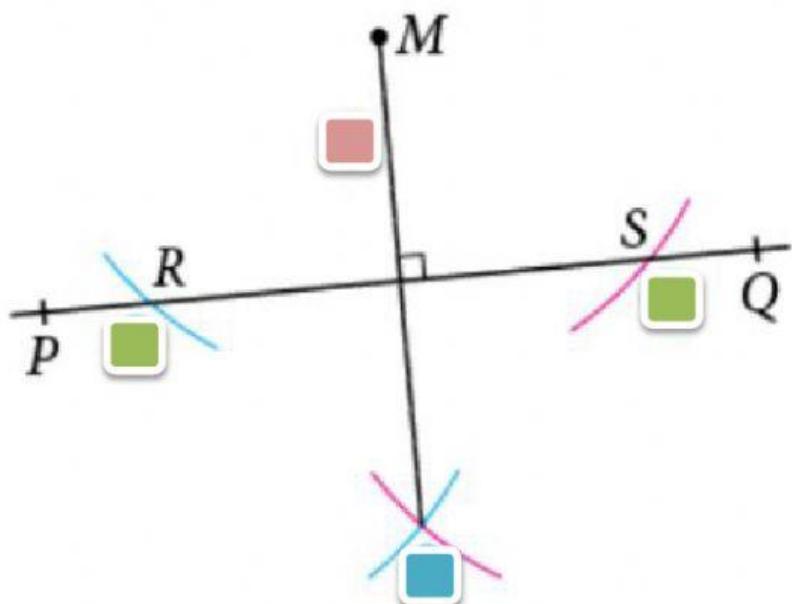
Using only a pair of compasses and a ruler, construct the perpendicular line from point M to the straight line PQ .

• M



Solution

Arrange the pictures below in the correct order.



Thank you for
your hard work
and **dedication!**