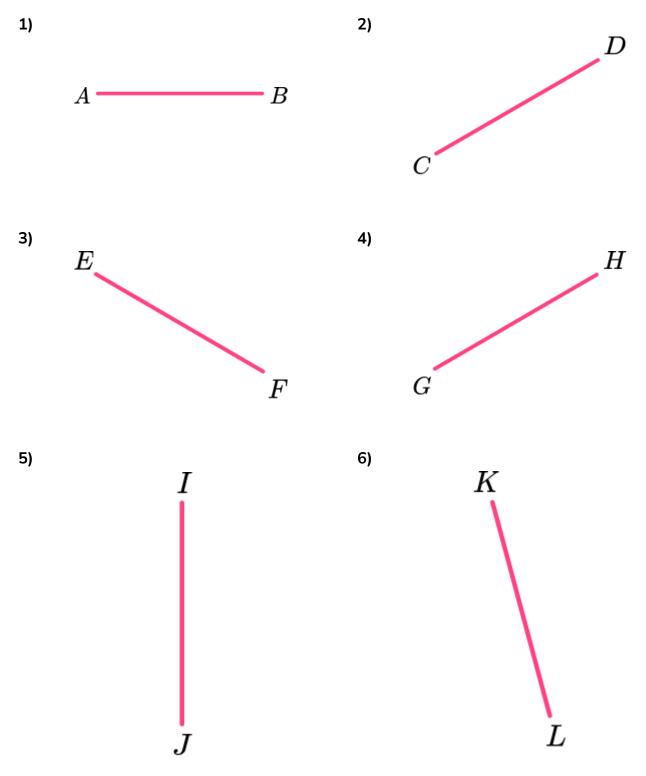


#### Skill

#### Group A - Perpendicular bisector of a line

Construct a perpendicular bisector for each of the line segments below:





#### Group B - Drawing lines and perpendicular bisectors

Draw the following size lines and construct a perpendicular bisector for each of the lines:

**1)** 10cm

**2)** 12cm

3) 140mm

**4)** 130mm

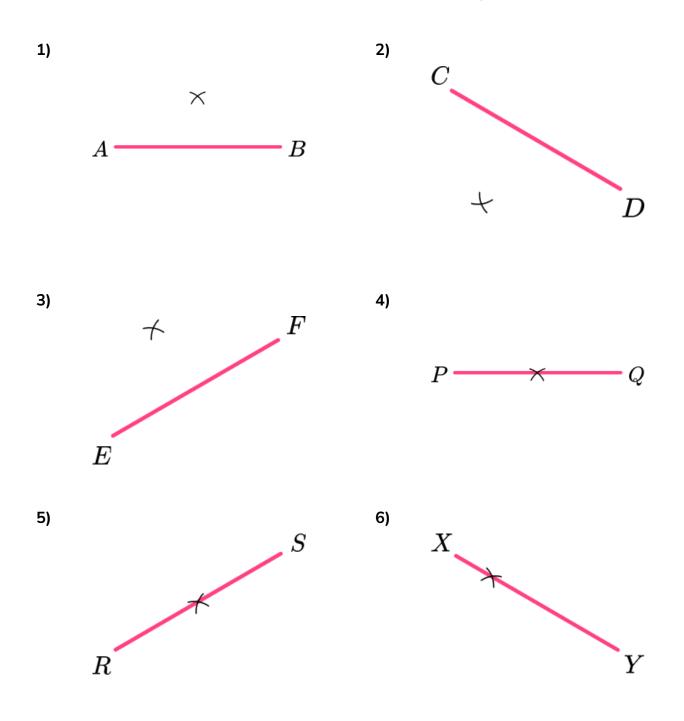
**5)** 10.5cm

6) 108mm



#### Group C - Constructions from a point to a line

Construct a perpendicular bisector from the point to the line segment.



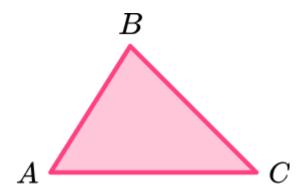


#### Applied

**1)** Using a ruler and compass construct a perpendicular from the point to line segment SM.

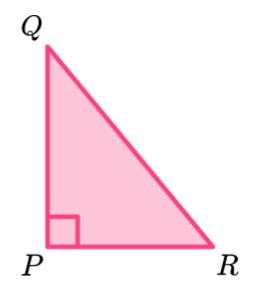


2) Using a ruler and compass construct a perpendicular bisector for each of the sides of triangle ABC. Clearly label the point where the bisectors intersect.





**3)** Using a ruler and compass construct a perpendicular bisector for each of the sides of triangle PQR. Clearly label the point where the bisectors intersect.





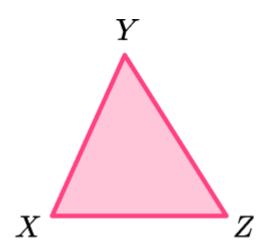
### **Perpendicular Bisectors - Exam Questions**

1) Using a ruler and compass construct a perpendicular bisector for line segment XY.



(2 marks)

2) Using a ruler and compass construct a perpendicular bisector for each of the sides of triangle XYZ. Clearly label the point where the bisectors intersect.



(4 marks)



## Perpendicular Bisectors - Exam Questions

3) Using a ruler and compass construct a perpendicular from the point to line segment AB.

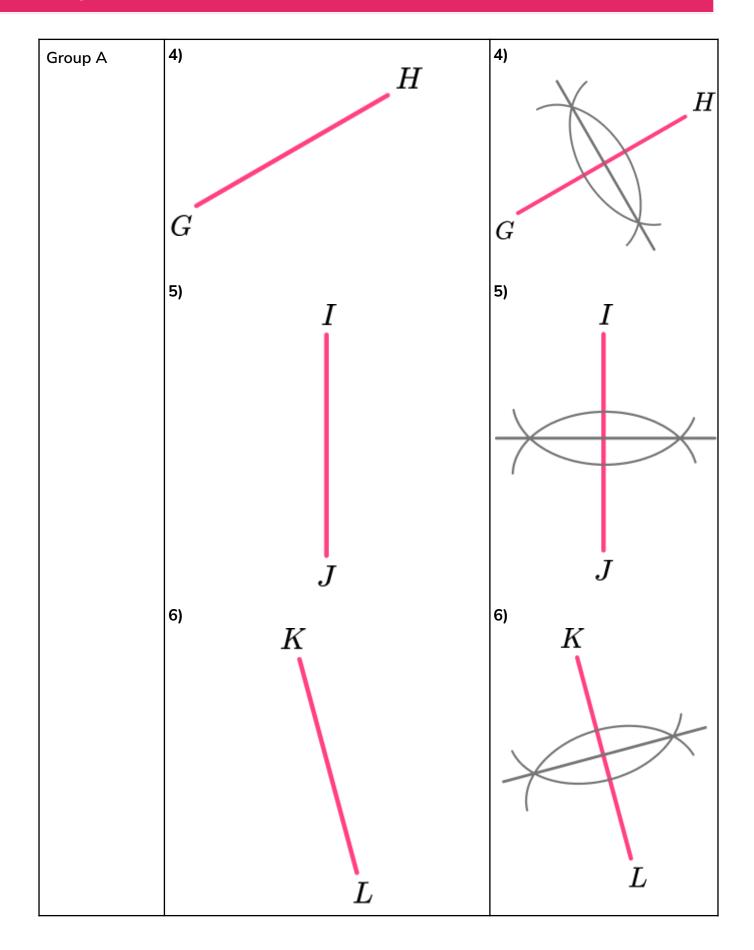


(3 marks)

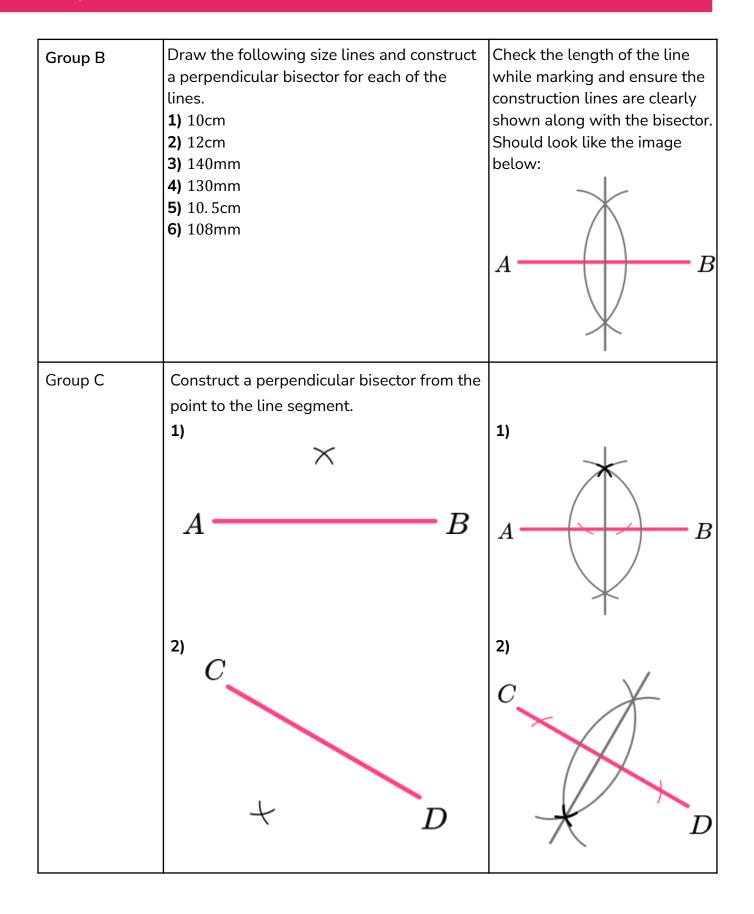


	Question	Answer
	Skill Questions	
Group A	Construct a perpendicular bisector for each of the line segments below: 1)	1)
	A B	
	2) D	2) D
	C	c
	3) E	3) E
	F	F

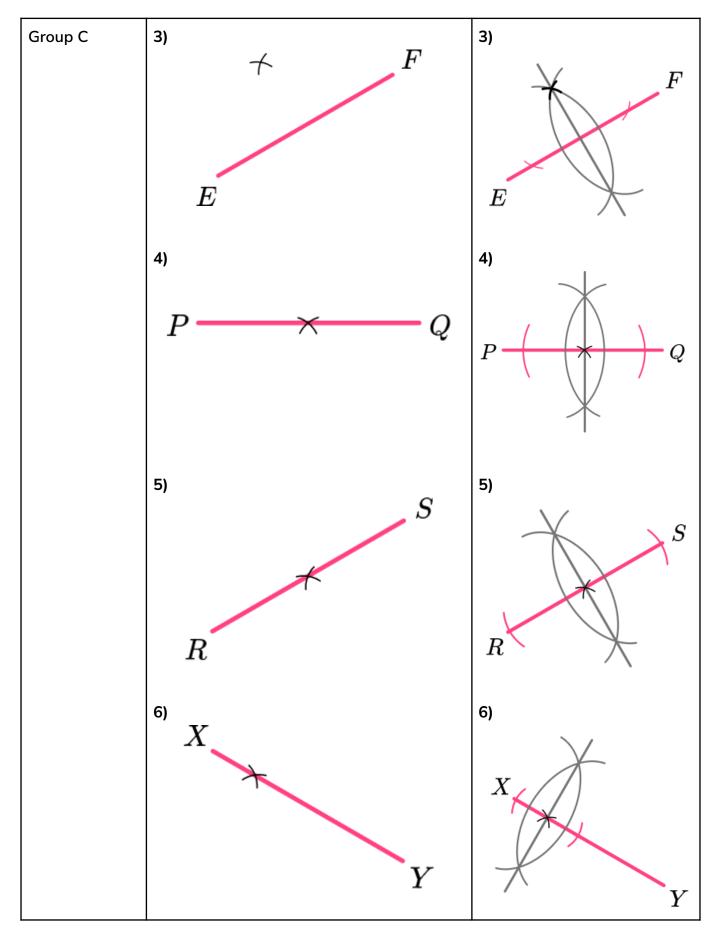












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	Question	Answer
	Applied Questions	
1)	Using a ruler and compass construct a perpendicular from the point to line segment SM. $S \longrightarrow M$	$S \longrightarrow M$
2)	Using a ruler and compass construct a perpendicular bisector for each of the sides of triangle ABC. Clearly label the point where the bisectors intersect. $B$	
3)	Using a ruler and compass construct a perpendicular bisector for each of the sides of triangle PQR. Clearly label the point where the bisectors intersect. $Q$	

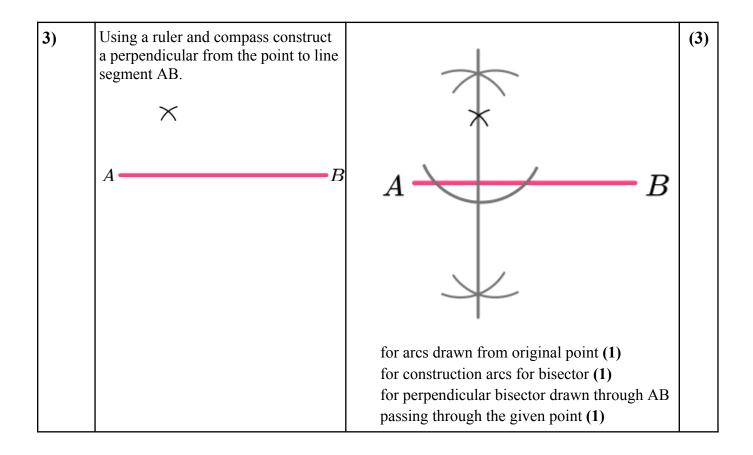


## Perpendicular Bisectors - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Using a ruler and compass construct a perpendicular bisector for line segment XY. Y	X Y	(2)
		for all construction arcs shown (1) for perpendicular bisector drawn through XY (1)	
2)	Using a ruler and compass construct a perpendicular bisector for each of the sides of triangle XYZ. Clearly label the point where the bisectors intersect.		(4)
		for perpendicular bisector of XZ with construction lines (1) for perpendicular bisector of XY with construction lines (1) for perpendicular bisector of YZ with construction lines (1) for a clear point of intersection (1)	



### Perpendicular Bisectors - Mark Scheme



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