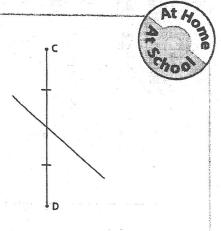
## **Quick Review**

When you draw a line to divide a line segment into two equal parts, you *bisect* the segment. The line you drew is a *bisector* of the segment.



When the bisector is drawn perpendicular to the segment, the line is the perpendicular bisector of the segment.



Here are 2 strategies to draw a perpendicular bisector of line segment AB.

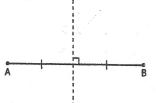
## Using paper folding

Fold the paper so that point A lies on point B.

Crease along the fold.

Open the paper.

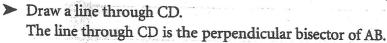
The fold line is the perpendicular bisector of AB.

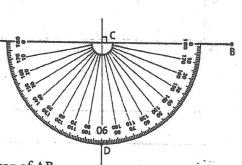


## Using a ruler and a protractor

➤ Use the ruler to measure the length of AB. Mark its midpoint C.

➤ Place the centre of the protractor on C. Align the base line of the protractor with AB. Mark a point D at 90°.





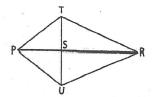
## Practice

- 1. Match each term with its definition.
  - a) right angle
  - b) bisector
  - c) perpendicular bisector
  - d) diagonal
- Identify the perpendicular bisector in this kite.How do you know the segment you

identified is a perpendicular bisector?

a line segment that joins two vertices of a shape, but is not a side

- a 90° angle
- a line that divides a line segment into two equal parts
- a line that is perpendicular to a line segment and divides the segment into two equal parts



3. Draw any line segment MN.
Use any method you like to draw the perpendicular bisector of MN.
Explain your strategy.

Has each line segment AB been bisected? How do you know?	
a)	
A B	
b)	
Å B	
c)	arantera di tronggio.
Å B	en e e entre de la compania de la c Entre de la compania
d)	
	ज्युनीय वर्गाः । १८ सङ्
A B	
Look around you for examples of perpendicu	lar bisectors. List 2 examples.

	B.					
4						
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				. 14		
)	Why does a line segment have n	nany bisecto	rs?			
						Transfer of annual sections
						ACTUAL DESIGNATION OF THE PERSON OF THE PERS
)	Why does a line segment have o	nly one perp	pendicula	r bisecto	r?	
		-	•			
				*		
) T	raw line segment PQ 10 cm long.					
	Draw the perpendicular bisector					
	Tan die perpendiemar Disector	of PQ.				
			11 8	44, 1		
				42, 1		
		5 , 3 , , + +5 , , ,				
		2				
•	Choose three different points A	P. and C. an	al. l.			
)	Choose three different points A,		n the bise	ctor.		
)	Choose three different points A,  i) Measure PA and QA.		n the bise	ctor.		
	The state of the s		n the bise	ctor.		
	i) Measure PA and QAii) Measure PB and QB			ctor.		
	i) Measure PA and QA.					