



Q. 11  
6

$$KP = \frac{1}{2} BC, \quad KP \parallel BC \leftarrow ABC \quad \text{and} \quad KP \parallel KP$$

$$QM = \frac{1}{2} BC, \quad QM \parallel BC \leftarrow BCD \quad " \quad " \quad QM$$

$\therefore KP \parallel QM$

$$KL \parallel AC, \quad KL = \frac{1}{2} AC \leftarrow \Delta ABC \quad \text{and} \quad KP \parallel KP$$

$$NM \parallel AC, \quad NM = \frac{1}{2} AC \leftarrow \Delta ACD \quad \text{and} \quad NM \parallel NM$$

$\therefore QM \parallel KL \quad \text{and} \quad KP \parallel NM$

$KM \parallel NM \quad \text{and} \quad KL \parallel MN$   $\therefore$   $KLMN$  is a parallelogram  $\therefore LN = KM$   
 $KM \parallel NM \quad \text{and} \quad LN = KM$   $\therefore$   $KPMQ$  is a parallelogram  
 $\therefore QM \parallel KP$   $\therefore QM \parallel LN$   $\therefore QM \parallel LN$