

**Grade- VIII**

**MATHS**

1. Obtuse
2. Interior opposite
3. Right angled
4.  $100^\circ$
5.  $36^\circ$
6.  $x^\circ - 40^\circ + x + 20^\circ + \frac{1}{2}x - 10^\circ - 180^\circ$   
 $\frac{5x}{2} = 250^\circ$   
 $x = 100^\circ$
7.  $\angle A + \angle B + \angle C = 180^\circ$   
 $\angle A = 80^\circ$   
 $AC \perp BC, \angle ALC = 90^\circ$   
 $\angle CAL = 180^\circ - [90^\circ + 40^\circ]$   
 $\angle CAL = 50^\circ$   
AD bisects  $\angle A, \angle DAC = \frac{80^\circ}{2} = 40^\circ$   
 $\angle LAD = 50^\circ - 40^\circ$   
 $= 10^\circ$
8.  $a^\circ = 180^\circ - 70^\circ$   
 $= 110^\circ$   
 $b^\circ = 40^\circ - a^\circ$   
 $= 40^\circ + 110^\circ$   
 $b^\circ = 150^\circ$
9.  $\angle ACD = 15^\circ + 52^\circ = 55^\circ$   
 $\angle AED = \angle ECD + 52^\circ$   
 $= 55^\circ + 52^\circ$   
 $= 107^\circ$
10.  $x^\circ + (180^\circ - 120^\circ) + (180^\circ - 10^\circ) = 180^\circ$   
 $x^\circ + 60^\circ + 70^\circ = 180^\circ$   
 $x^\circ = 50^\circ$