LINES AND ANGLES

BASIC TERMS AND DEFINITION OF LINES AND ANGLES

EXERCISE

- **Q.1** Find the measure of an angle which is 20° more than its complement.
- **Q.2** Find the measure of an angle which is 40° less than its supplement.
- **Q.3** Find the measure of an angle, if six times its complement is 12° less than twice its supplement.
- **Q.4** Convert 180° in degree, minute & second.
- **Q.5** Find the measure of the supplement of an angle of 87°28'43".
- **Q.6** If $\angle A = 36^{\circ}27'46''$ and $\angle B = 28^{\circ}43'39''$, find $\angle A + \angle B$.
- **Q.7** Find the complement of each of the following angles :
 - (i) 58° (ii) 16°
 - (iii) $\frac{2}{3}$ of a right angle (iv) 46° 30'
- **Q.8** Find the measure of an angle which is complement of itself.
- **Q.9** Find the measure of an angle which forms a pair of supplementary angles with itself.
- **Q.10** An angle is equal to five times its complement. Determine its measure.

ANSWER KEY

1.	the measure of the required angle is 55°.	
2.	the measure of the required angle is 70°.	
3.	the measure of the required angle is 48°.	
4.	180° = 179° 59' 60''.	
5.	the measure of the required angle = $(92^{\circ}31'17'')$.	
6.	65°11'25''	
7.	(i) 32°	(ii) 74°
	(iii) 30	(iv) 43° 30'
8.	45 <u>°</u>	
9.	90º	
10.	75	