

BAL BHARATI PUBLIC SCHOOL

G.R.H. MARG, NEW DELHI.

CLASS - VII

MATHEMATICS

ASSIGNMENT - 3

CHAPTER - 9 (LINES AND ANGLES)

FORMATIVE ASSESSMENT-2 (Q 1 - 9)

SUMMATIVE ASSESSMENT-1 (Q 10 - 13)

Choose the correct answer : (Q 1 - 2)

Q.1 The complement of an angle is  $\frac{2}{3}$  of the other, then the angle is :

- (a)  $60^\circ$       (b)  $30^\circ$       (c)  $36^\circ$       (d)  $54^\circ$

Q.2 If the supplement of an angle is  $165^\circ$ , then its complement is :

- (a)  $15^\circ$       (b)  $90^\circ$       (c)  $75^\circ$       (d)  $65^\circ$

Q.3 Two supplementary angles differ by  $34^\circ$ , find the angles.

Q.4 An angle is equal to five times its complement. Determine its measure.

Q.5 (i) Complement of  $72^\circ$  is ----- .

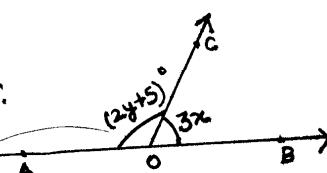
(ii) Supplement of  $90^\circ$  is ----- .

Q.6 If the complement of an angle is  $28^\circ$ , then find the supplement of the angle.

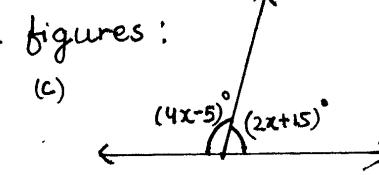
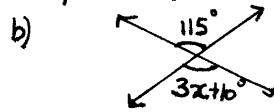
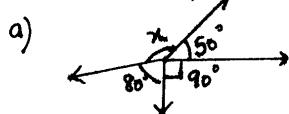
Q.7 In figure, OA and OB are opposite rays :

(i) If  $x = 25^\circ$ , what is the value of  $y$  ?

(ii) If  $y = 35^\circ$ , what is the value of  $x$  ?



Q.8 Find the value of  $x$  in each of the following figures :

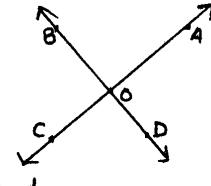


Q.9. In figure, name the angle (angles)

(i) adjacent to  $\angle AOB = \dots$  and  $\dots$

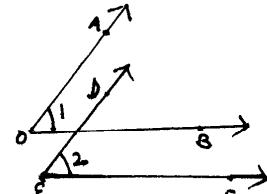
(ii) vertically opposite to  $\angle BOC = \dots$

(iii) forming linear pair with  $\angle COD = \dots$  and  $\dots$ .



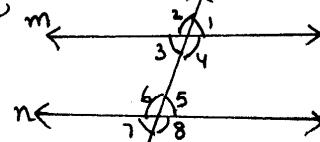
Q.10. The arms of two angles are parallel as shown in the figure.

If  $\angle 1 = 65^\circ$ , find  $\angle 2$ .

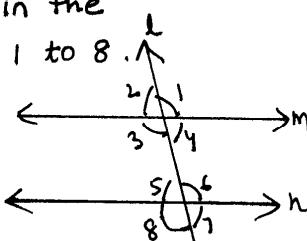


Q.11. In figure, if  $\angle 2 = 120^\circ$  and  $\angle 5 = 60^\circ$ ,

Show that  $m \parallel n$ .



Q.12. In figure,  $m \parallel n$  and angles 1 and 2 are in the ratio 3:2. Determine all the angles from 1 to 8.



Q.13. In the adjoining figure, find a, b, c and d if  $l \parallel m$ .

