



# INDIAN SCHOOL NIZWA- WORKSHEET

## MATHEMATICS

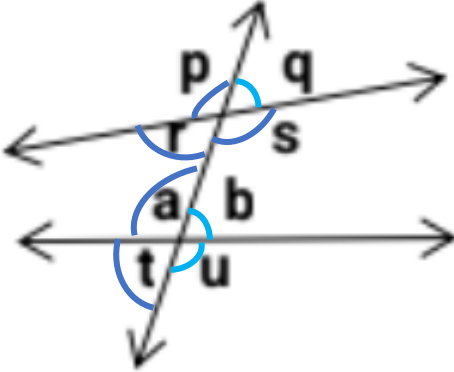
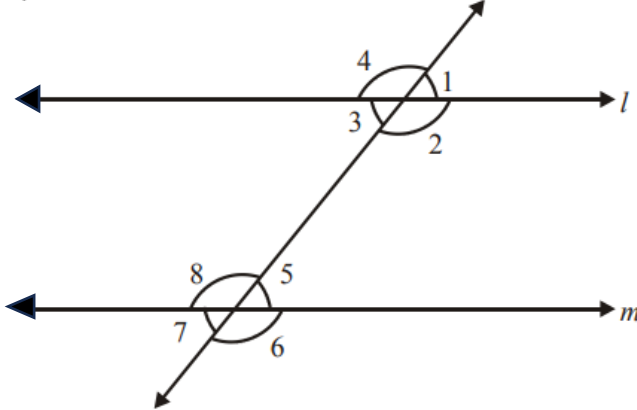
### CH 5 Lines and Angles

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: VII Sec: \_\_

I.	<b>Choose the correct option.</b>
1.	What type of angle is the complementary angle of $65^\circ$ ? a) Obtuse angle      b) Acute angle      c) Right angle      d) Straight angle
2.	One of the angles in the supplementary angles is $2b^\circ$ , the other angle is ____ <sup>0</sup> a) $90 - 2b$ b) $180 + b$ c) $180 - 2b$ d) $90 + 2b$
3.	An angle is greater than $45^\circ$ . Its complement will be : (a) Less than $45^\circ$ (b) Equal to $45^\circ$ (c) Greater than $45^\circ$ (d) None of these
II.	<b>Fill in the blanks</b>
4.	If the supplement of an angle is $169^\circ$ , the angle will be _____ degree.
5.	(a) Complementary angle of $62^\circ$ is ..... (b) Supplementary angle of $45^\circ$ is ..... (c) If line $AB \parallel CD$ and line $LM$ is transversal, sum of two interior angles on the same side of transversal is equal to .....
III.	<b>State true or false :</b>
6.	(a) If measure of an angle is $90^\circ$ then its supplementary angle will be greater than $90^\circ$ . (b) Two obtuse angles form a linear pair. (c) Two acute angles form a linear pair. (d) If two adjacent angles are complementary, they form a right angle.
IV.	<b>Answer the following</b>
7.	Find the complement of each of the following angles. i. $75^\circ$ ii. $32^\circ$ iii. $46^\circ$ iv. $28^\circ$
8.	Find the supplement of each of the following angles. i. $110^\circ$ ii. $77^\circ$ iii. $118^\circ$ iv. $122^\circ$



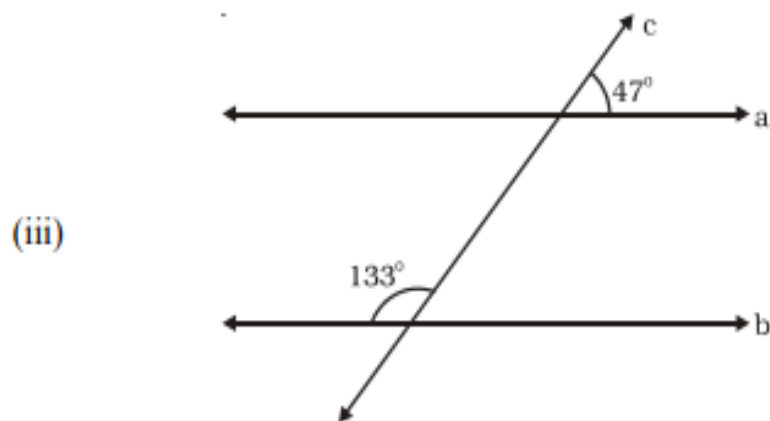
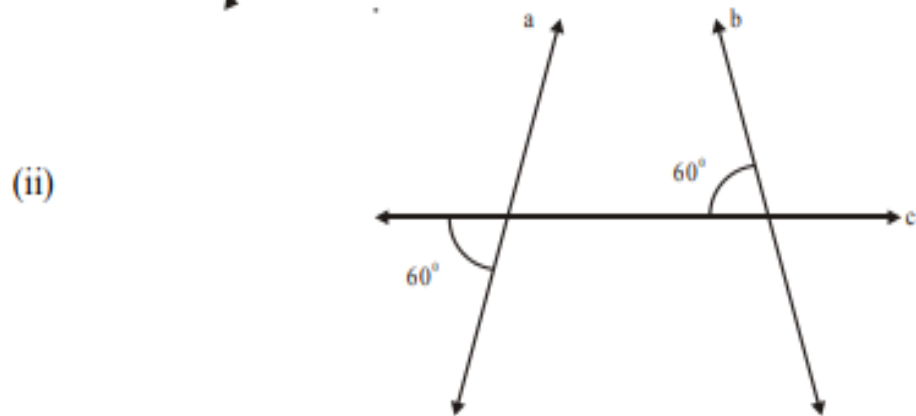
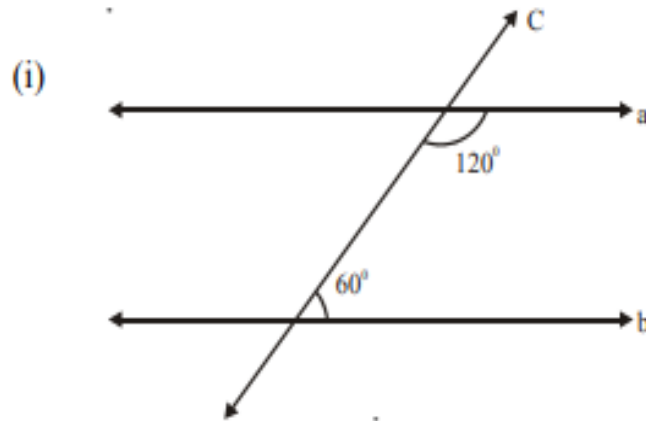
## INDIAN SCHOOL NIZWA- WORKSHEET

9.	If the angles $(4x + 4)^\circ$ and $(6x - 4)^\circ$ are supplementary angles, find the value of $x$ .
10.	Find the angle : (i) Which is equal to its complement. (ii) Which is equal to its supplement
11.	Identify a pair of obtuse alternate interior angles in the given figure. 
12.	In the figure, identify the pairs of corresponding angles. 



## INDIAN SCHOOL NIZWA- WORKSHEET

13. In the given figure, decide  $a$  is parallel to  $b$ .

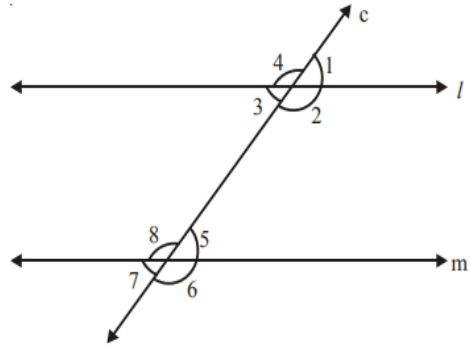




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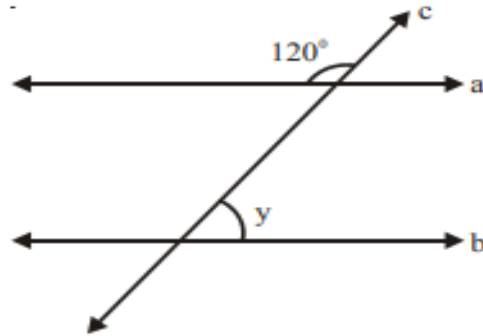
14. State the property that is used in each of the following statements.

- (i) If  $l \parallel m$ , then  $\angle 4 = \angle 8$
- (ii) If  $\angle 1 = \angle 7$ , then  $l \parallel m$
- (iii) If  $\angle 3 + \angle 8 = 180^\circ$ , then  $l \parallel m$ .

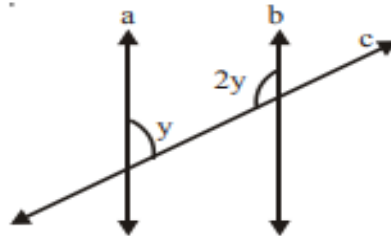


15. Find the value of  $y$  in each of the following figure if  $a \parallel b$  and  $c \parallel d$ .

(i)



(ii)



(iii)

