

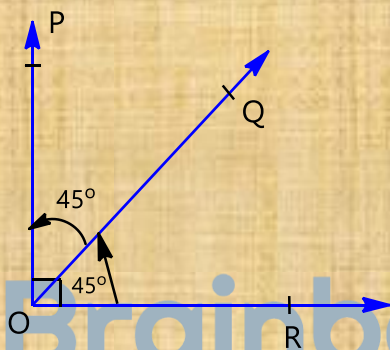
CHAPTER 06

Lines and Angles

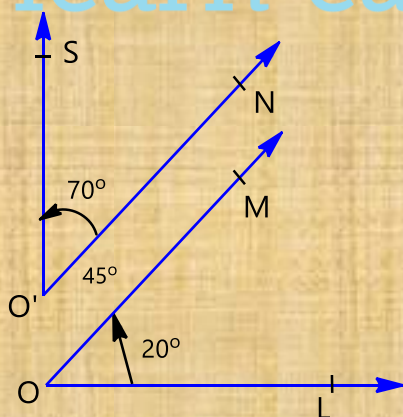
Pairs of angles:

Complementary angles:

Two angles are called complementary, if the sum of their measures is 90° , i.e. a right angle.



Note: $\angle POQ + \angle QOR = 90^\circ$ (These are adjacent angles)



Note: $\angle LOM + \angle NO'S = 90^\circ$ (These are not adjacent angles)

Example 01:

Write the complement of (i) 37° (ii) $\frac{1}{5}$ right angle.

Sol.

(i) Complement of $37^\circ = 90^\circ - 37^\circ = 53^\circ$

(ii) Complement of $\frac{1}{5}$ right angle $= 90^\circ - \left(\frac{1}{5} \times \cancel{90^\circ}^{18^\circ} \right)$
 $= 90^\circ - 18^\circ$

Complement of $\frac{1}{5}$ right angle $= 72^\circ$

