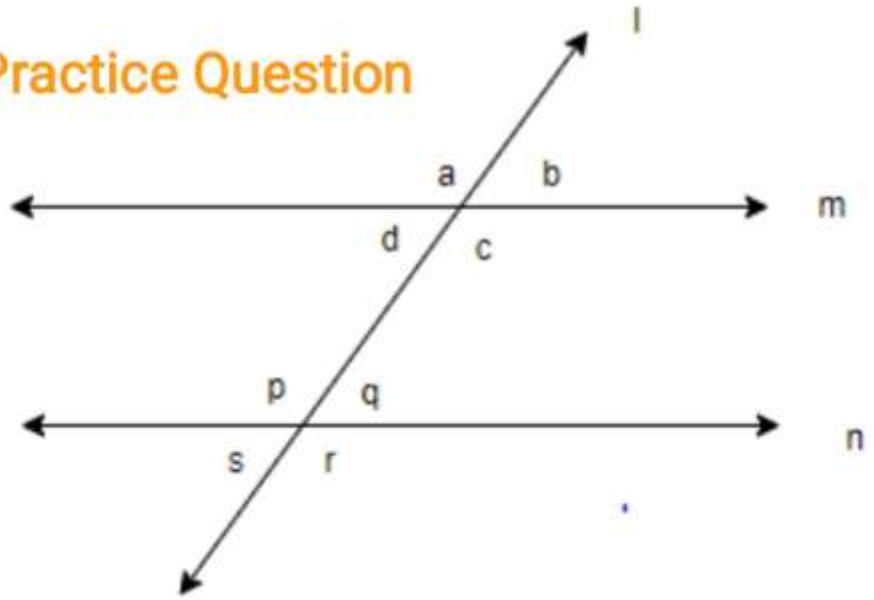
Worksheet -6 Subject: - Mathematics Class: - VII Teacher: - Ms. Neeru

Name: _____ Class & Sec: _____ Roll No. _____ Date: 11.08.2020

Practice Question



Match the column

Column I	Column II
(x) Alternate interior	(i) Angle q and b
(y) Alternate exterior	(ii)Angle p and c
(z) Corresponding	(iii) Angle r and a

x -> ii, y -> iii, z -> i ✓

x -> i, y -> iii, z -> ii

x -> i, y -> ii, z -> iii

x -> iii, y -> ii, z -> i

Question 13

Fill in the blanks:

(i) If two angles are complementary, then the sum of their measures is _____.

(ii) If two angles are supplementary, then the sum of their measures is _____.

(iii) Two angles forming a linear pair are _____.

(iv) If two adjacent angles are supplementary, they form a _____.

(v) If two lines intersect a point, then the vertically opposite angles are always _____.

(vi) If two lines intersect at a point and if one pair of vertically opposite angles are acute angles, then the other pair of vertically opposite angles are _____.

Answer 13:

(i) 90^0 (ii) 180^0 (iii) supplementary

(iv) linear pair (v) equal (vi) obtuse angles

Question 14

In the adjoining figure, name the following pairs of angles:

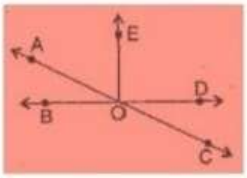
(i) Obtuse vertically opposite angles.

(ii) Adjacent complementary angles.

(iii) Equal supplementary angles.

(iv) Unequal supplementary angles.

(v) Adjacent angles that do not form a linear pair.



Answer 14:

(i) Obtuse vertically opposite angles means greater than 90^0 and equal $\angle$ AOD = $\angle$ BOC.

(ii) Adjacent complementary angles means angles have common vertex, common arm, non-common arms are on either side of common arm and sum of angles is 90^0.

(iii) Equal supplementary angles means sum of angles is 180^0 and supplement angles are equal.

(iv) Unequal supplementary angles means sum of angles is 180^0 and supplement angles are unequal.

i.e., $\angle$ AOE, $\angle$ EOC; $\angle$ AOD, $\angle$ DOC and $\angle$ AOB, $\angle$ BOC

(v) Adjacent angles that do not form a linear pair mean, angles have common ray but the angles in a linear pair are not supplementary.

i.e., $\angle$ AOB, $\angle$ AOE; $\angle$ AOE, $\angle$ EOD and $\angle$ EOD, $\angle$ COD